Z020 – EVDO Modem
User Manual

V6.1

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THE NEXT GENERATION NETWORK

AnyDATA CDMA Module Series Reference Design Specification
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1. Getting Started

In order to use Z020 USB MODEM following must be satisfied:

1) Zapp Online Software and Z020 USB MODEM Driver has been installed on the computer.

2) The Z020 EVDO modem is active (the activation process has been successfully completed – this is indicated by POWER LED in green colour, and then by the restart of the modem).

<CAUTION> PLEASE CONNECT THE BATTERY AND EXTERNAL POWER SUPPLY TO INSURE MAXIMUM PERFORMANCE OF THE MODEM. IF USING THE MODEM WHILE ON-THE-ROAD, PLEASE KEEP BATTERY INTACTED WITH THE MODEM. AND MAKE SURE THE BATTEY IS FULLY CHARGED BEFORE THE USAGE. WHEN THE BATTEY CAPACITY IS LOW, MAKE SURE TO CHARGE IT BEFORE CONTINUING TO USE.

1.1 USB Modem

INTERNAL ANTENNA
LED
POWER KEY
IDLE BUSY SMS PWR
Z020
HIGH SPEED
CDMA MODEM
+5V DC POWER JACK
Mini USB Port
EAR JACK

<Caution>

When dismounting the battery, push the bottom of modem upward to slide easily out from the battery cradle.

1.2 Components

5V DC Power Adaptor

Standard USB Cable

1.3 LED indicator

POWER

Mode	Descriptions
BLUE	Battery power is used
BLUE BLINK	Low battery warning
RED	External DC power is used and fully charged
VIOLET	External DC power is used and under charging
OFF	Power off

IDLE

Mode	Descriptions
BLUE	Working in EVDO network
BLUE BLINK	Searching EVDO network
OFF	Service is not available

BUSY

Mode	Descriptions
BLUE	- EVDO : Data throughput exceed to 1,200Kbps
CYAN	- EVDO : Data throughput between 600Kbps to 1,200Kbps
GREEN	- EVDO : Data throughput under 600Kbps
GREEN BLINK	- EVDO : Outgoing call initiated but still attempt
OFF	- EVDO : Not in connected state

2. Program Installation

2.1 Introduction

This section describes step-by-step method to install Z020 USB MODEM and

Zapp Online Express Software.

<Note>

Must install the software before connecting Z020 USB MODEM to PC/Notebook.

2.2 Minimum System Requirement

2.2.1 PC Hardware

Recommend to use PC/Notebook at speed of 300 MHz or higher.

Minimum 233 MHz speed required, * Intel Pentium/Celeron products,

AMD K6/Athlon/Duron products or compatible processors

Recommend to use 128MB RAM or higher

Minimum 64MB of memory must be used,

but in this case the performance will be degraded and certain features will be limited.

At least 100 MB of free hard disk space is required.

Motherboard or PCI card that supports USB.

Video adaptor with Super VGA (800 x 600) or higher resolution and Monitor

CD-ROM or DVD Optical Drive

Keyboard and Mouse

2.2.2 Operating System

Windows XP Home or Professional (with Service Pack 2)

Windows 2000 (with Service Pack 4 for optimal performances)

Windows Vista

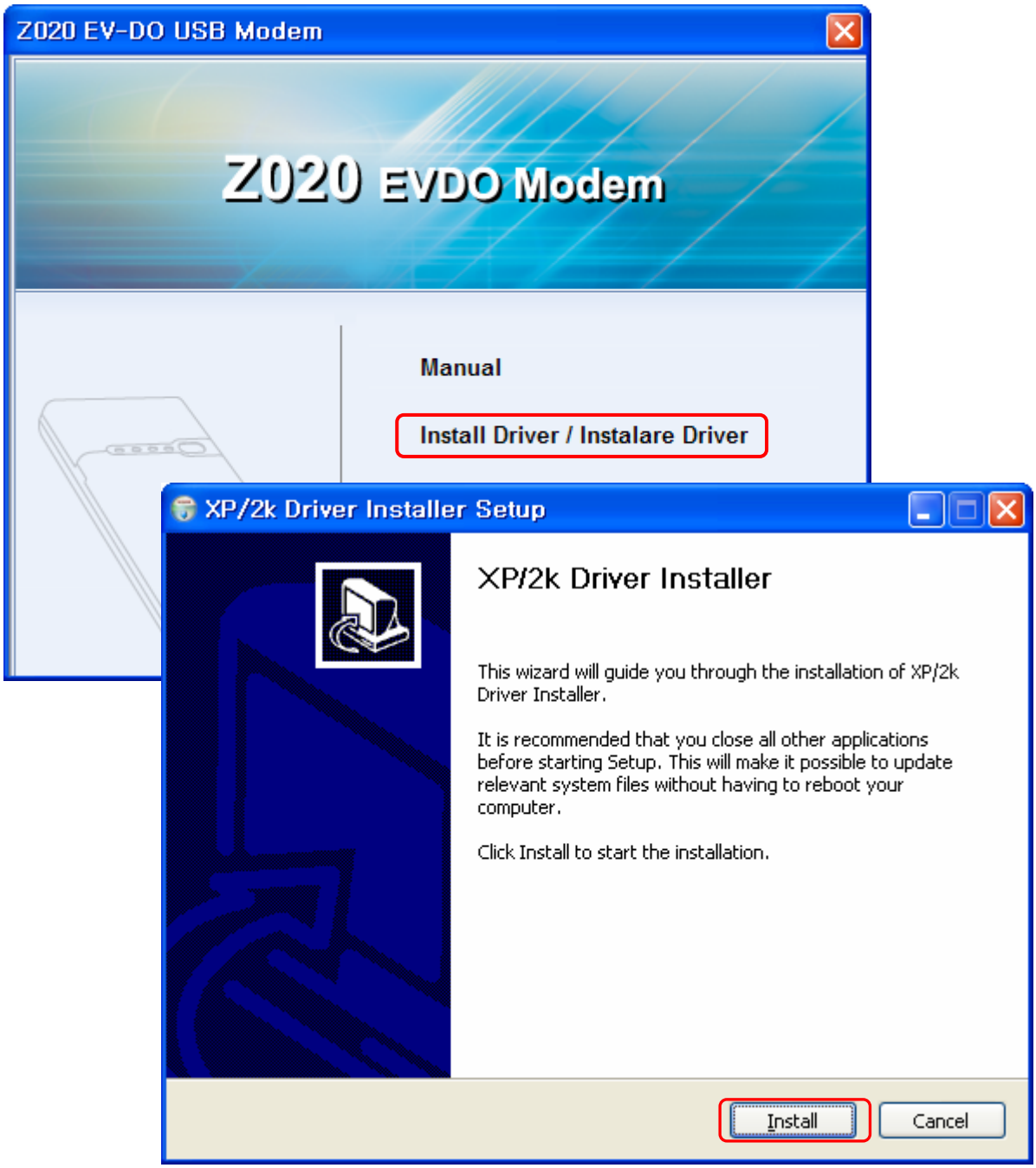
< Recommended parameters >

Windows Update : Keep your computer up to date

2.3 USB Driver Installation and Uninstall (Windows XP/2000)

2.3.1 USB Driver Installation (Automatic)

1. The installation of the USB Wireless Modem Connect should run automatically upon selecting this option on the menu of the Installation CD. Click ”Install Modem Driver” on the menu.


Z020 EV-DO USB Modem
Z020 EVDO Modem
Manual
Install Driver / Instalare Driver
XP/2k Driver Installer Setup
XP/2k Driver Installer
This wizard will guide you through the installation of XP/2k Driver Installer.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Install to start the installation.
Install
Cancel

2. The computer needs to restart after the driver installation completed.

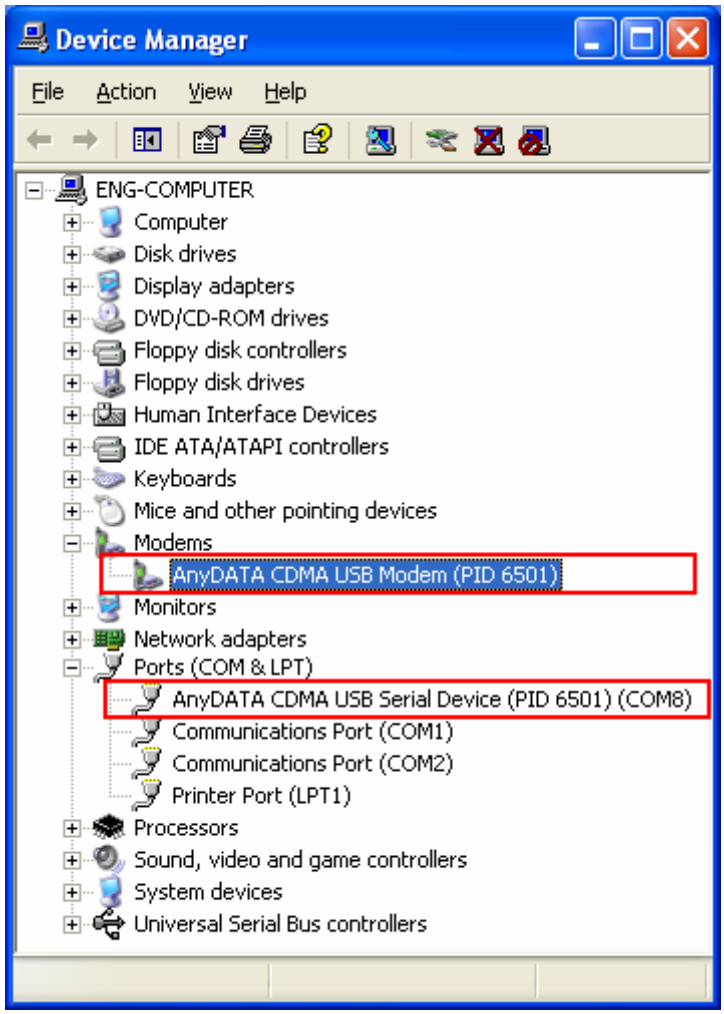
To restart the computer later, select “I want to manually reboot later”.

XP/2k Driver Installer Setup
XP/2k Driver Installer
Your computer must be restarted in order to complete the installation of XP/2k Driver Installer. Do you want to reboot now?
Reboot now
I want to manually reboot later
< Back
Finish
Cancel

3. Connect the modem and PC's USB port, and check if the driver is installed properly in "Device Manager". See the followings to the location of "Device Manager"

[Start ▶ Control Panel ▶ System ▶ Hardware Tab ▶ Devise Manager]

As shown in below with red boxed that shows "AnyDATA CDMA USB Modem" and "AnyDATA CDMA USB Serial Device", the driver has been successfully installed.



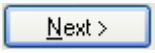
2.3.2 USB Driver Installation (Manual)

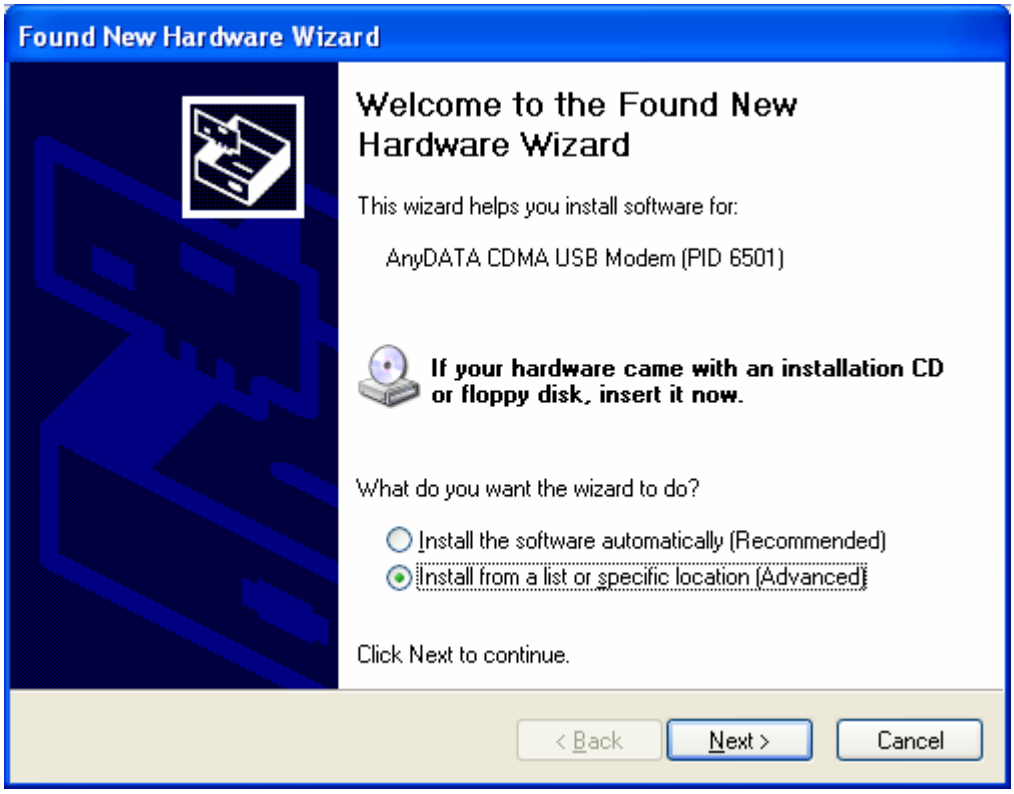
1. Connect the modem and PC's USB port with supplied USB cable.

   ※ The manual driver installation shall be required twice.

2. Installing "AnyDATA USB Modem Driver" window will appear.

   Select "Install from a list or specific location (Advanced)".

3. Press  button to proceed.

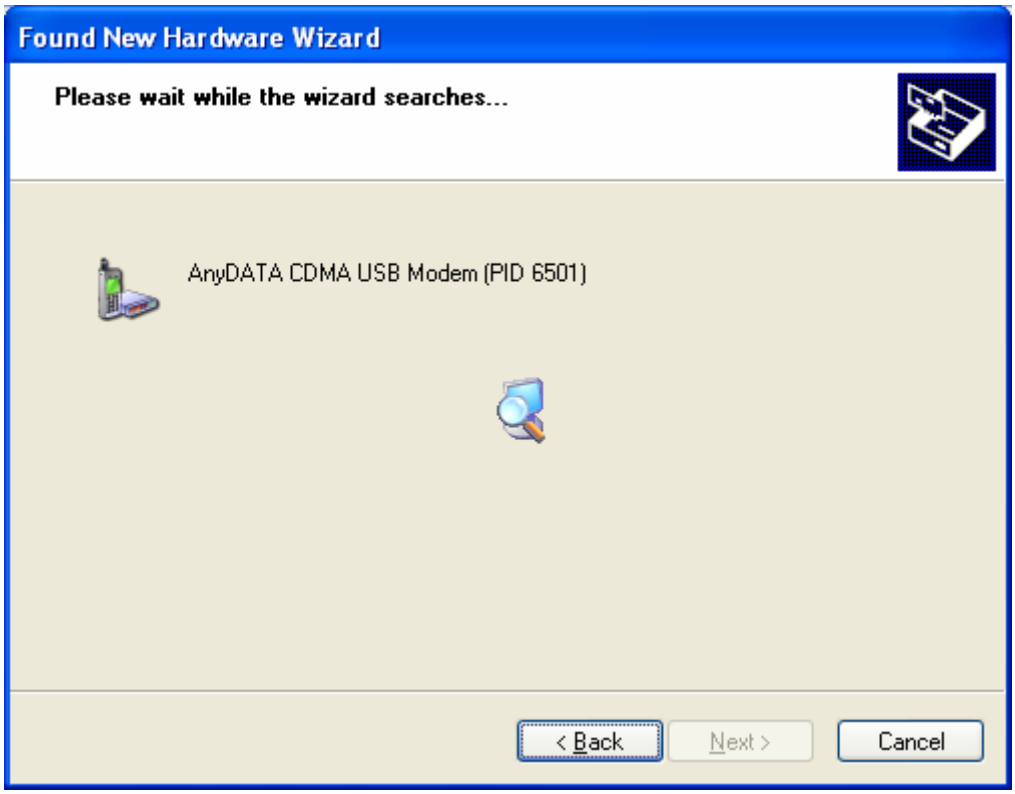

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
AnyDATA CDMA USB Modem (PID 6501)
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

4. A window that displays a proper path of Driver will appear.

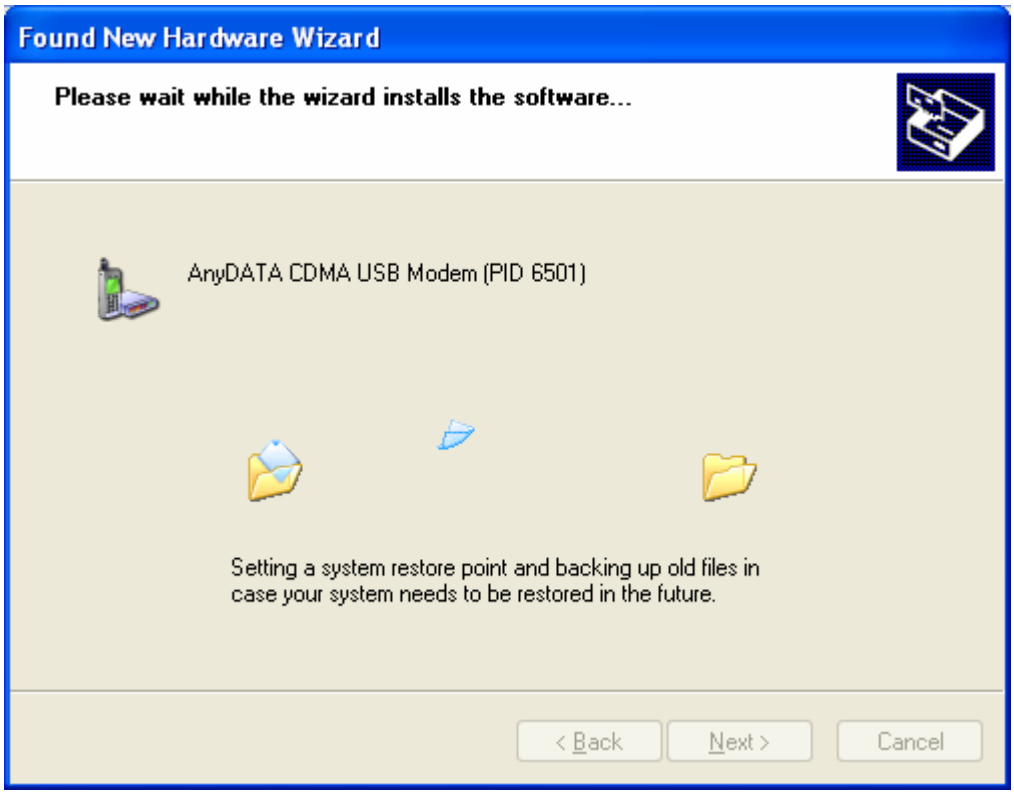
5. Select from the CD's path "CD Rom Driver: \Driver\" folder for appropriate OS.

6. Press button to proceed.

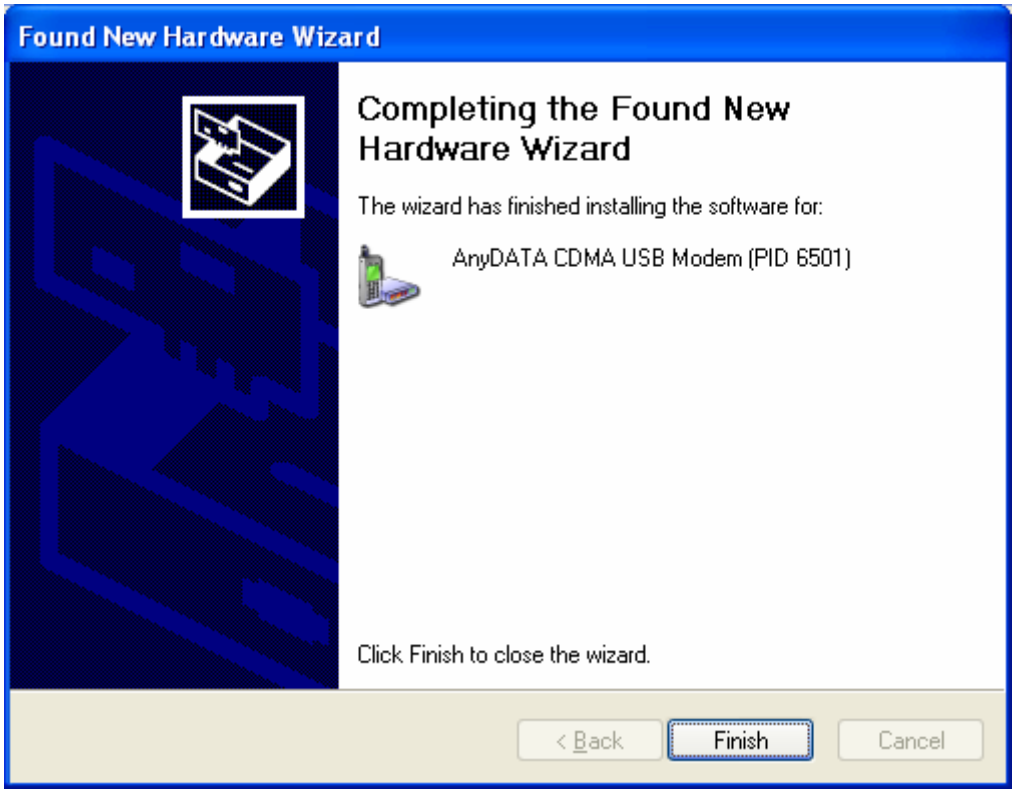
7. A window that searches “AnyDATA CDMA USB Modem” will appear.



8. Process of installing “AnyDATA CDMA USB Modem”.

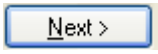

Found New Hardware Wizard
Please wait while the wizard installs the software...
AnyDATA CDMA USB Modem (PID 6501)
Setting a system restore point and backing up old files in case your system needs to be restored in the future.
< Back
Next >
Cancel

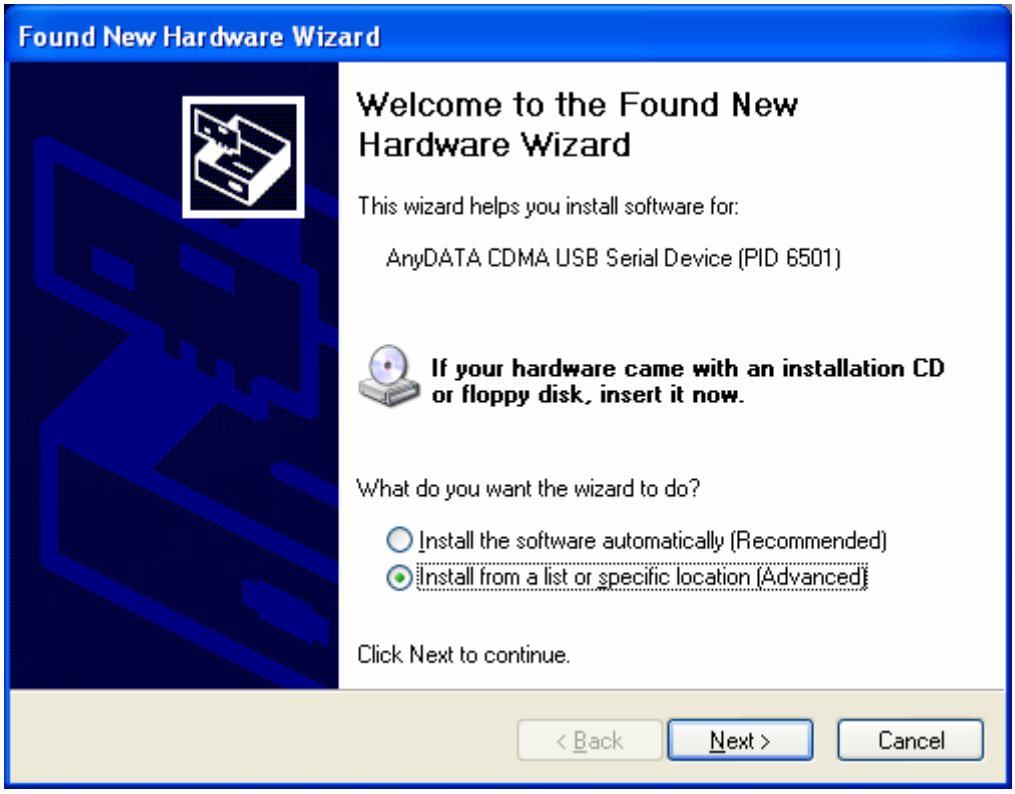
9. If the installation of “AnyDATA CDMA USB Modem” has been completed, following window will appear.


Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
AnyDATA CDMA USB Modem (PID 6501)
Click Finish to close the wizard.
< Back
Finish
Cancel

10. Next, it will install “AnyDATA CDMA USB Serial Device”.

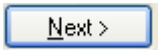
11. Select “Install from a list or specific location (Advanced)”.

12. Press  button to proceed.

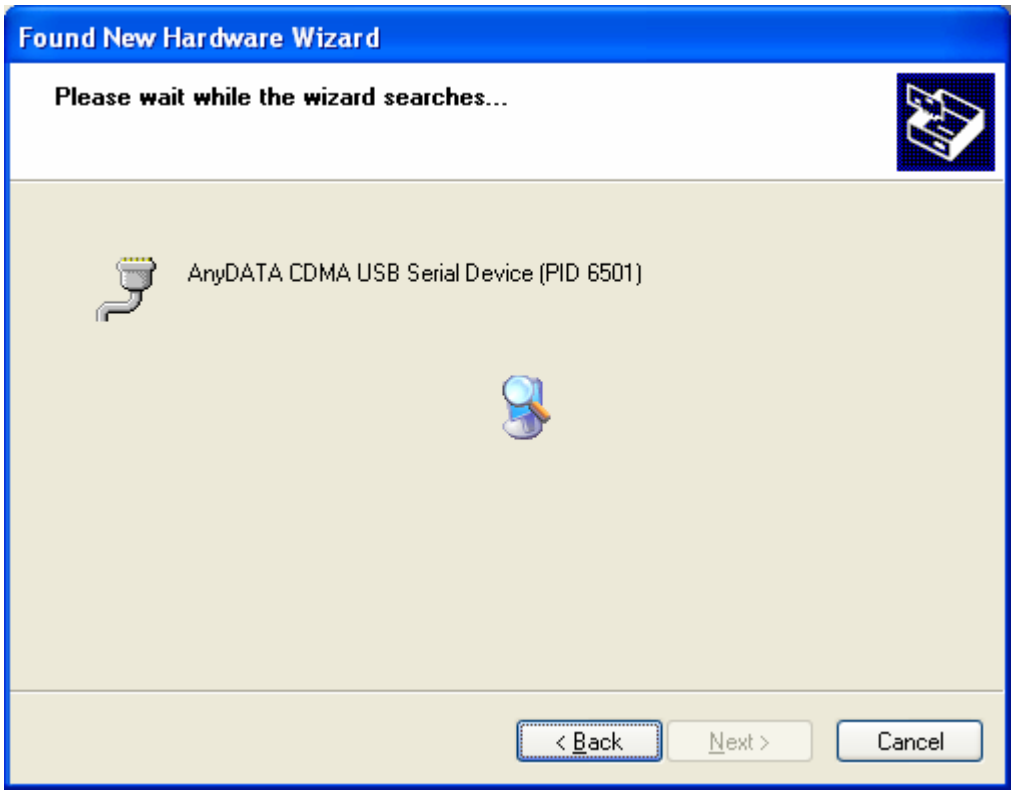

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
AnyDATA CDMA USB Serial Device (PID 6501)
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

13. Select the proper path from the CD window will appear.

14. Select from the CD's path "CD Rom Driver: \Driver\" folder for appropriate OS.

15. Press  button to move to next step.

16. Window that searches “AnyDATA CDMA USB Serial Device” will appear.



17. If the installation has done properly, this window will appear.

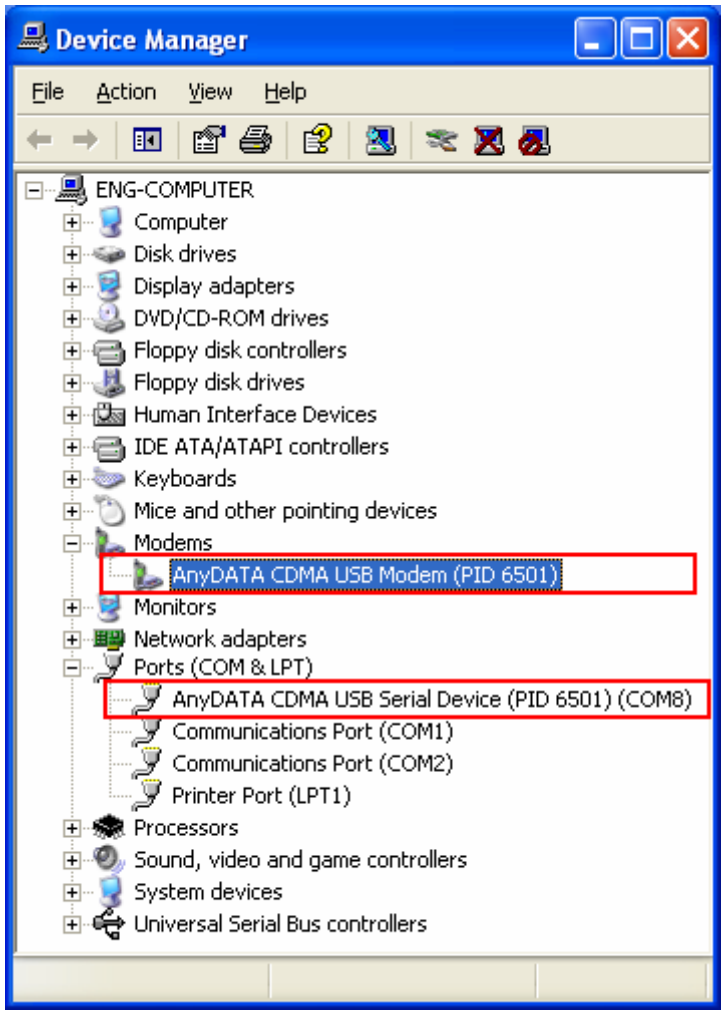
Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
AnyDATA CDMA USB Serial Device (PID 6501)
Click Finish to close the wizard.
< Back
Finish
Cancel

This will complete the driver installation.

18. Connect the modem and PC's USB port, and check if the driver is installed properly in "Device Manager". See the followings to the location of "Device Manager"

[Start ▶ Control Panel ▶ System ▶ Hardware Tab ▶ Devise Manager]

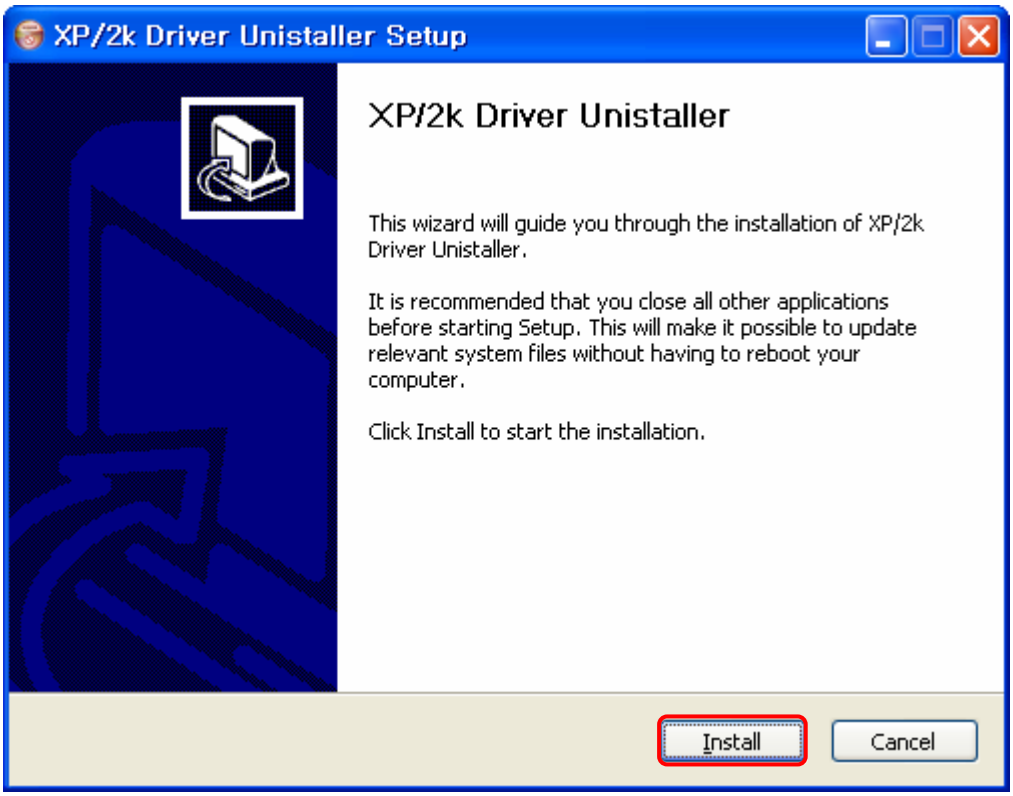
As shown in below with red boxed that shows "AnyDATA CDMA USB Modem" and "AnyDATA CDMA USB Serial Device", the driver has been successfully installed.



2.3.3 USB Driver Uninstall

1. Disconnect the modem from USB port before uninstalling the driver.
2. By clicking on

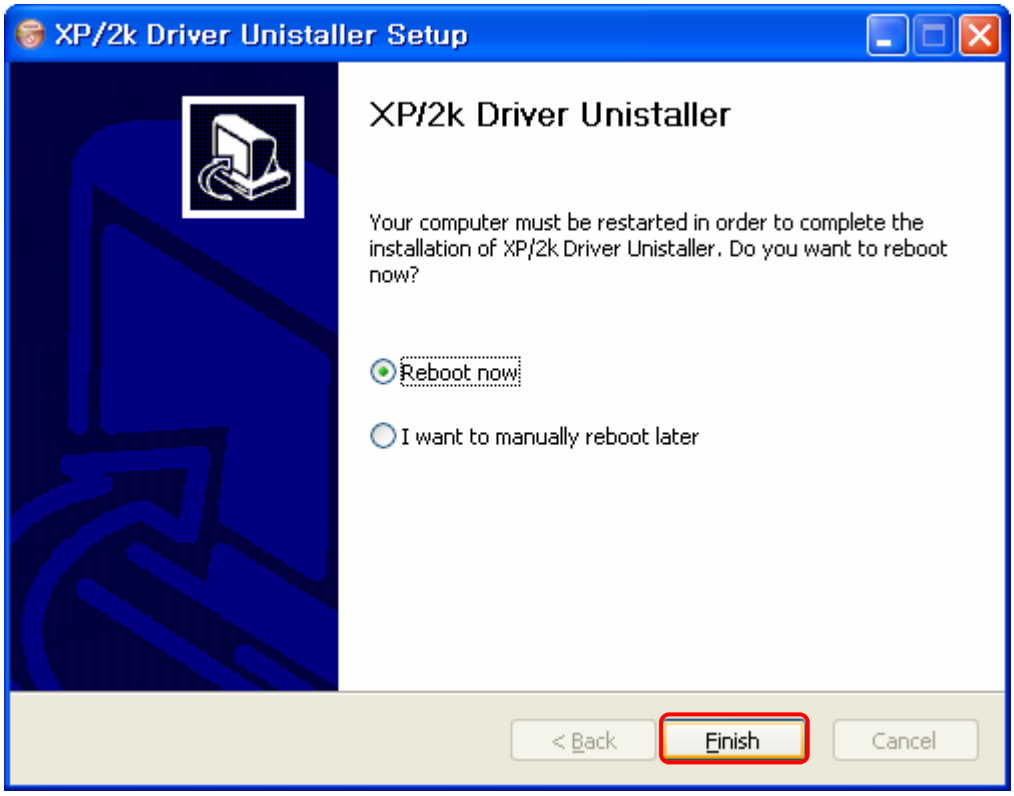
under the driver folder in CD, this will start as shown below.


XP/2k Driver Unistaller Setup
XP/2k Driver Unistaller
This wizard will guide you through the installation of XP/2k Driver Unistaller.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Install to start the installation.
Install
Cancel

3. Select “Install” to uninstall the driver.

   To stop removing the driver, select “Cancel”.

4. As shown below, click “Finish” then the driver will be uninstalled.


XP/2k Driver Unistaller Setup
XP/2k Driver Unistaller
Your computer must be restarted in order to complete the installation of XP/2k Driver Unistaller. Do you want to reboot now?
Reboot now
I want to manually reboot later
< Back
Finish
Cancel

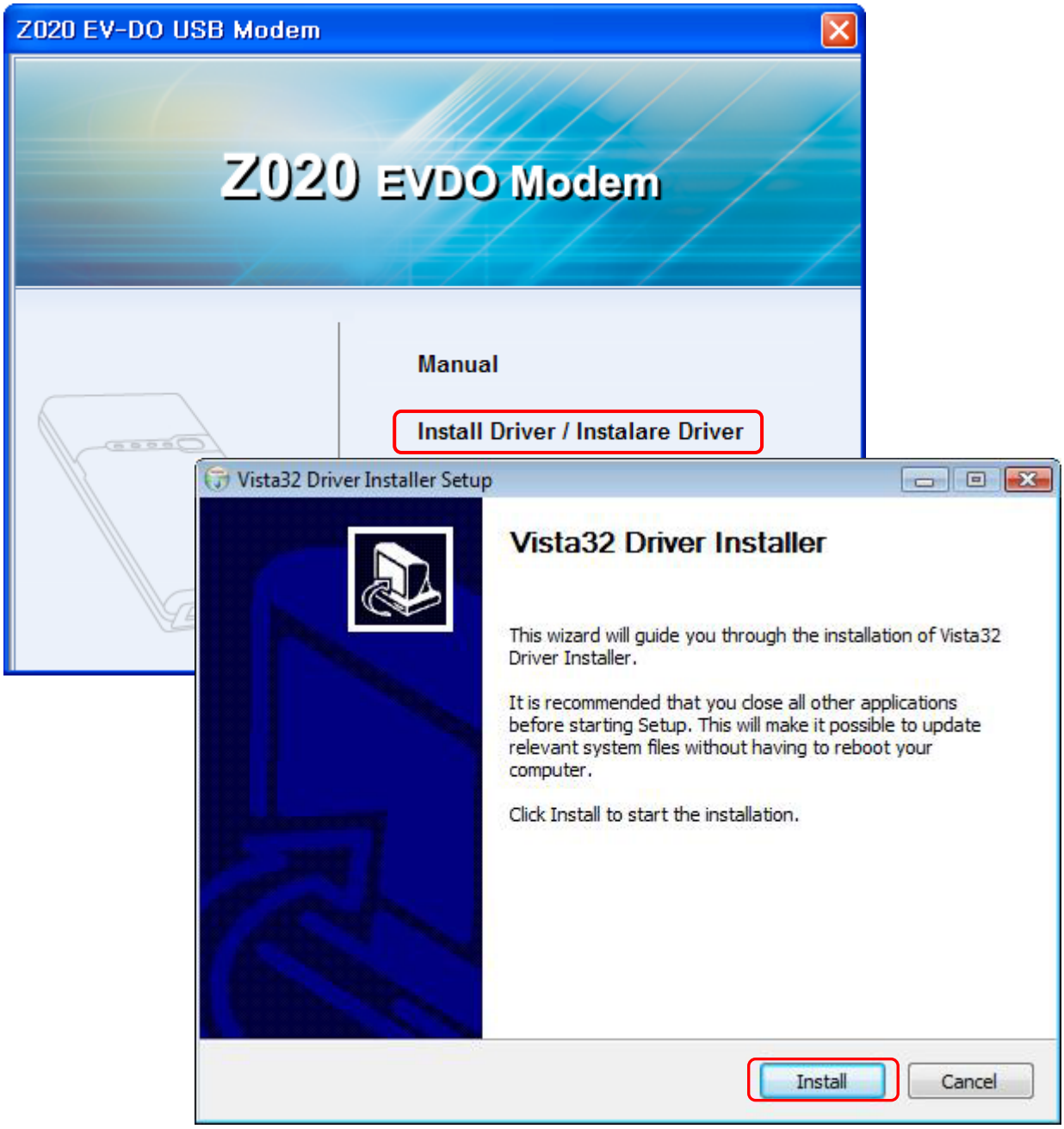
5. The computer must restart after the driver is uninstalled.

2.4 USB Driver Installation and Uninstall (Windows Vista)

※ The same will apply to Windows Vista 64bit.

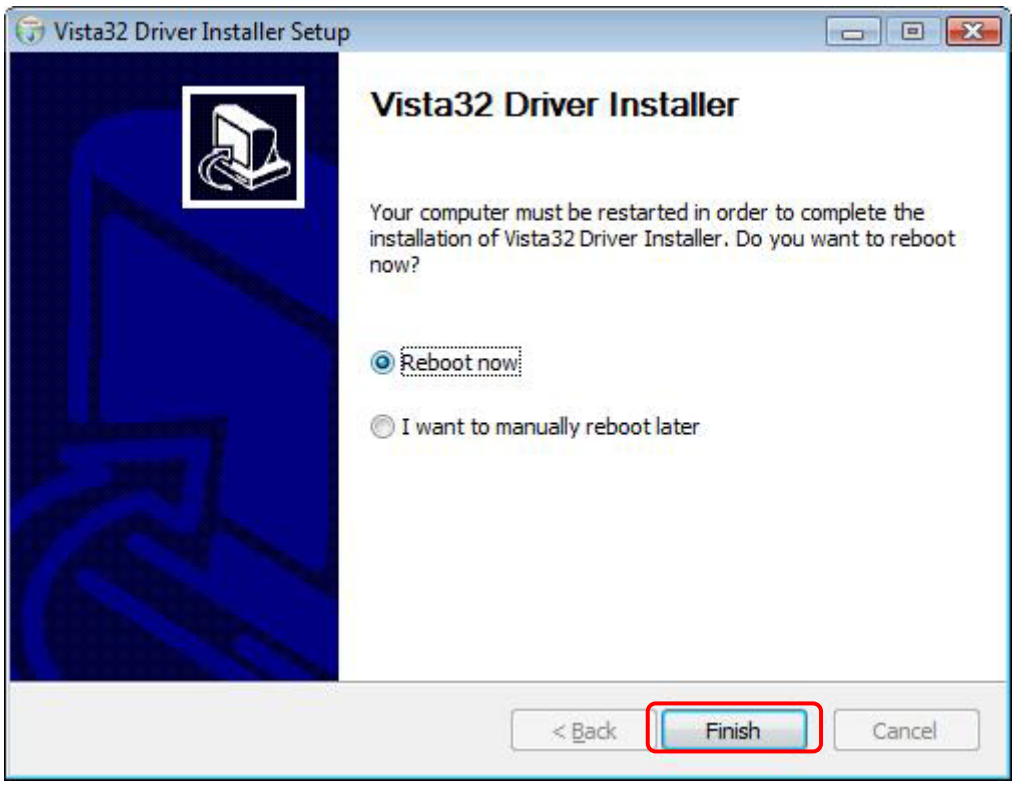
2.4.1 USB Driver Installation (Automatic)

1. The installation of the USB Wireless Modem Connect should run automatically upon selecting this option on the menu of the Installation CD. Click ”Install Modem Driver” on the menu.


Z020 EV-DO USB Modem
Z020 EVDO Modem
Manual
Install Driver / Instalare Driver
Vista32 Driver Installer Setup
Vista32 Driver Installer
This wizard will guide you through the installation of Vista32 Driver Installer.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Install to start the installation.
Install
Cancel

2. The computer needs to restart after the driver installation completed.

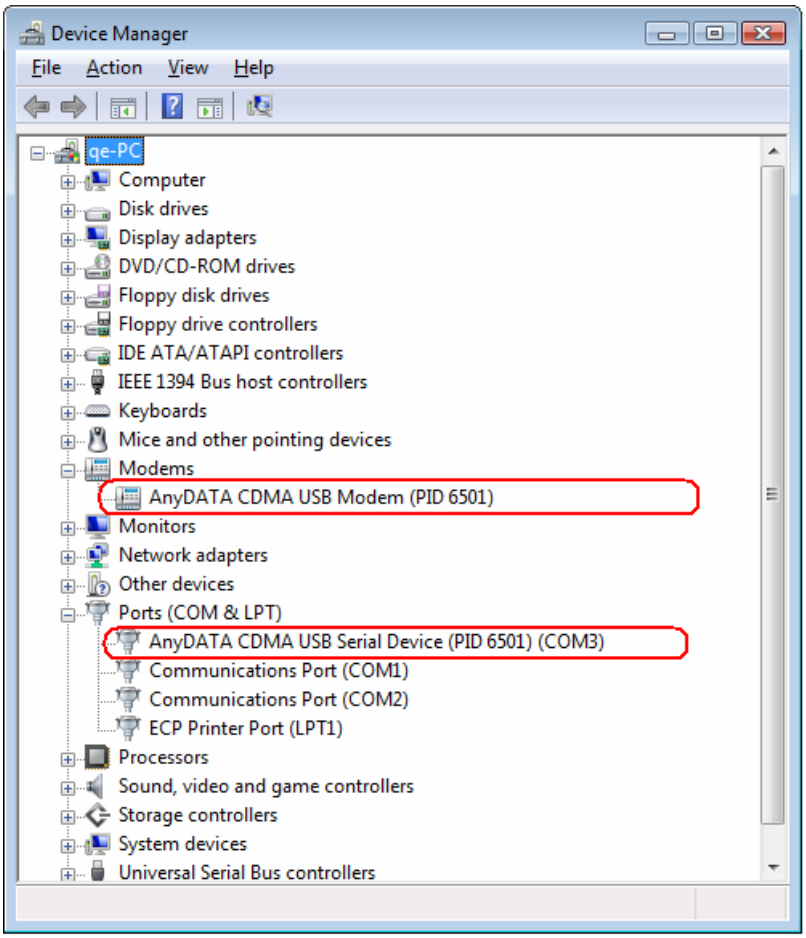
   To restart the computer later, select “I want to manually reboot later”.


Vista32 Driver Installer Setup
Vista32 Driver Installer
Your computer must be restarted in order to complete the installation of Vista32 Driver Installer. Do you want to reboot now?
Reboot now
I want to manually reboot later
< Back
Finish
Cancel

3. Connect the modem and PC's USB port, and check if the driver is installed properly in "Device Manager". See the followings to the location of "Device Manager"

[Start ▶ Control Panel ▶ System and Maintenance ▶ Devise Manager]

As shown in below with red boxed that shows "AnyDATA CDMA USB Modem" and "AnyDATA CDMA USB Serial Device", the driver has been successfully installed.

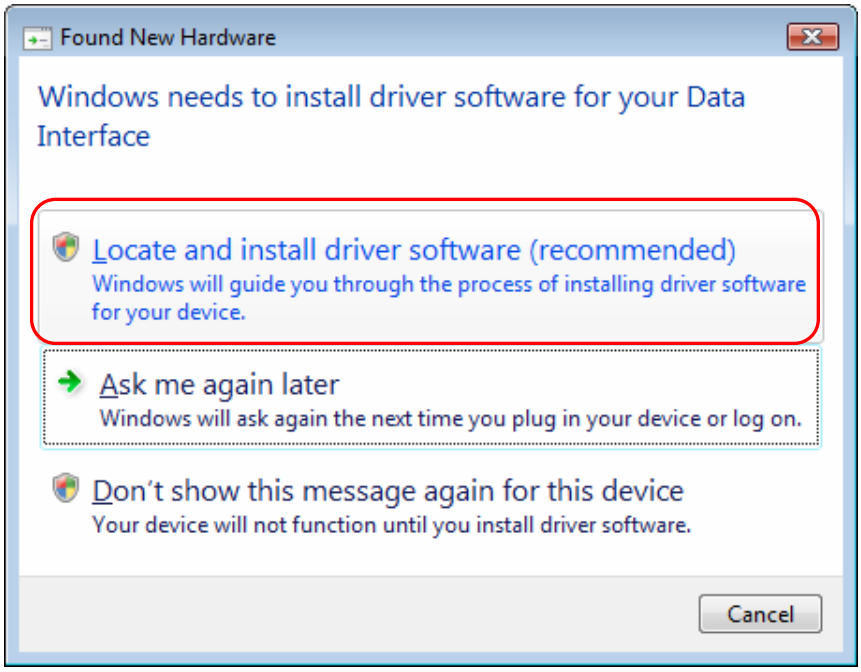


2.4.2 USB Driver Installation (Manual)

1. Connect the USB Modem to the computer.

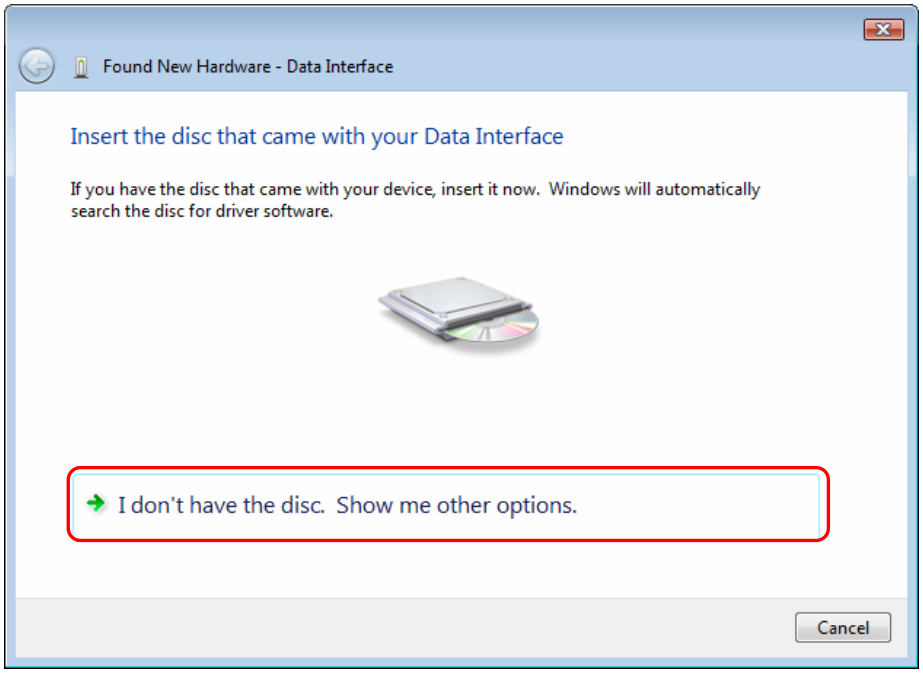
※ The manual driver installation shall be required twice.

2. Click “Locate and install driver software (recommended)” when shown in below.

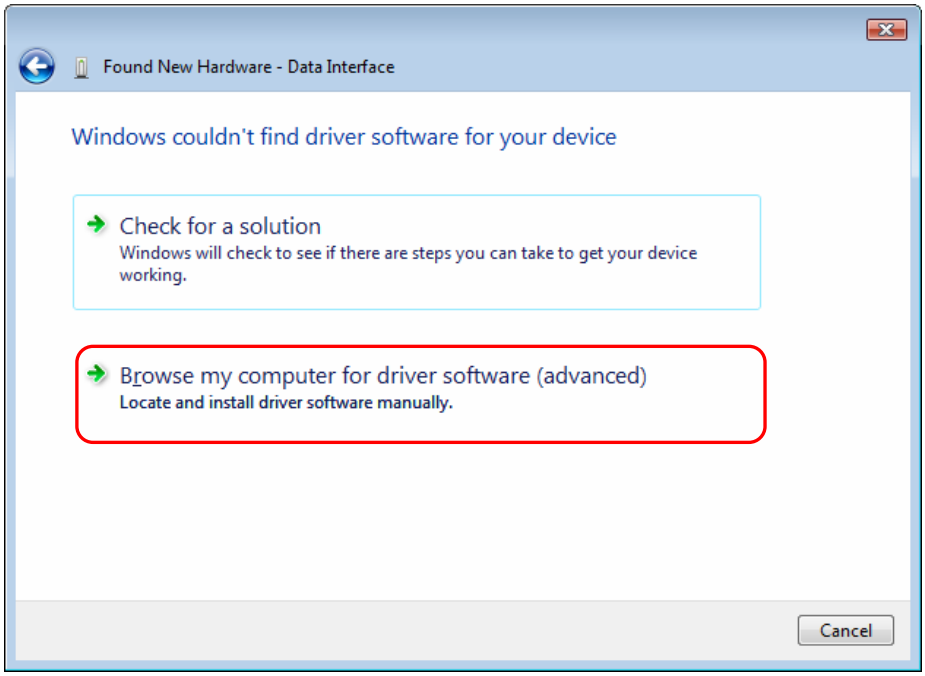

Found New Hardware
Windows needs to install driver software for your Data Interface
Locate and install driver software (recommended)
Windows will guide you through the process of installing driver software for your device.
Ask me again later
Windows will ask again the next time you plug in your device or log on.
Don't show this message again for this device
Your device will not function until you install driver software.
Cancel

3. Click “Continue” when “User Account Control” is shown.

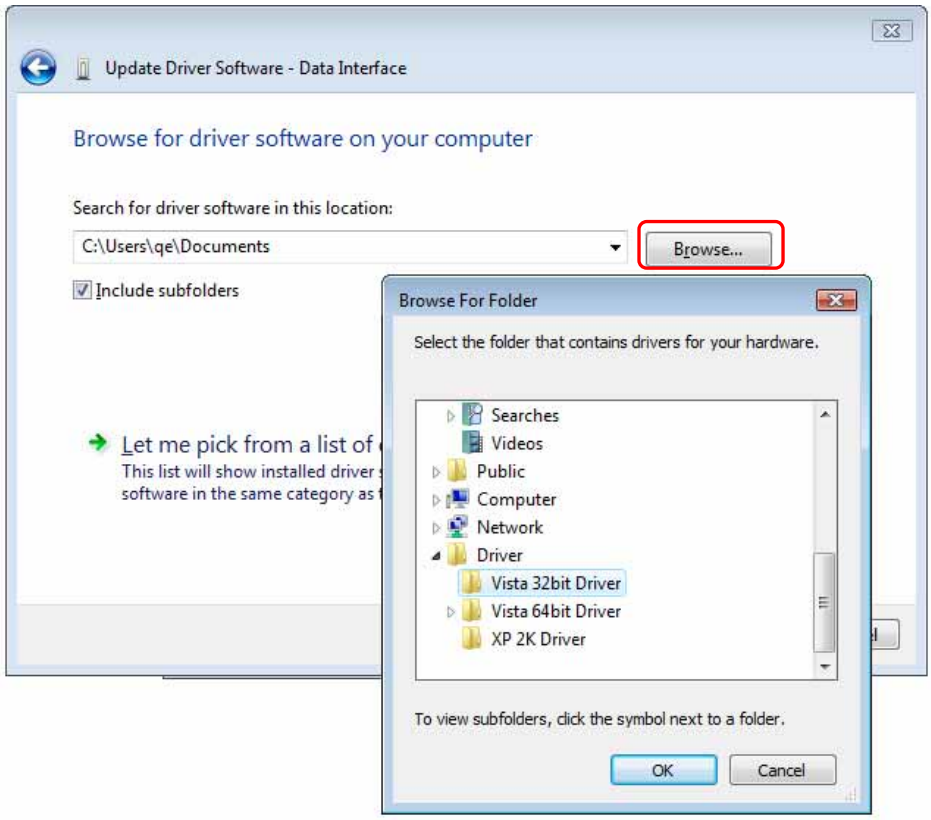
4. Click “I don’t have the disc. Show me other options.” as shown below.


Found New Hardware - Data Interface
Insert the disc that came with your Data Interface
If you have the disc that came with your device, insert it now. Windows will automatically search the disc for driver software.
I don't have the disc. Show me other options.
Cancel

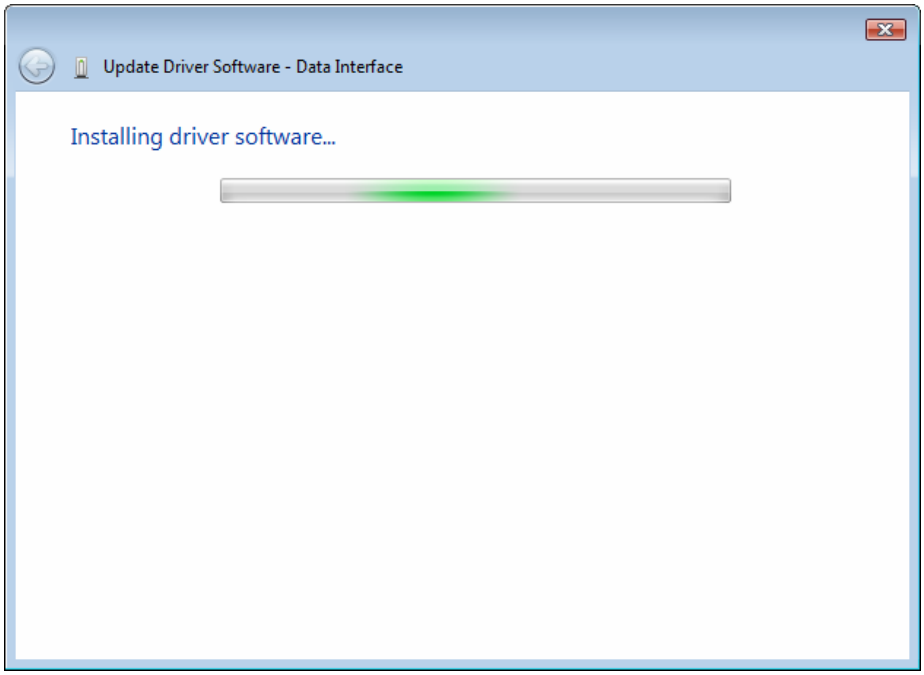
5 Click “Brower my computer for driver software (advanced)”.


Found New Hardware - Data Interface
Windows couldn't find driver software for your device
Check for a solution
Windows will check to see if there are steps you can take to get your device working.
Browse my computer for driver software (advanced)
Locate and install driver software manually.
Cancel

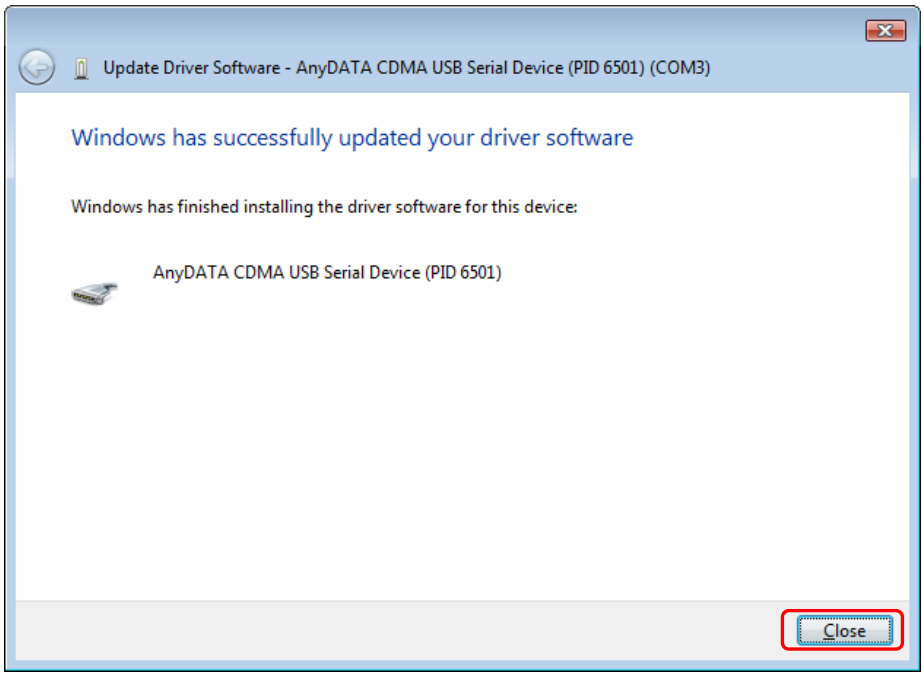
6. Click “Browse” and click “Next” as shown below.



7. “Installing driver software” will be shown as below.

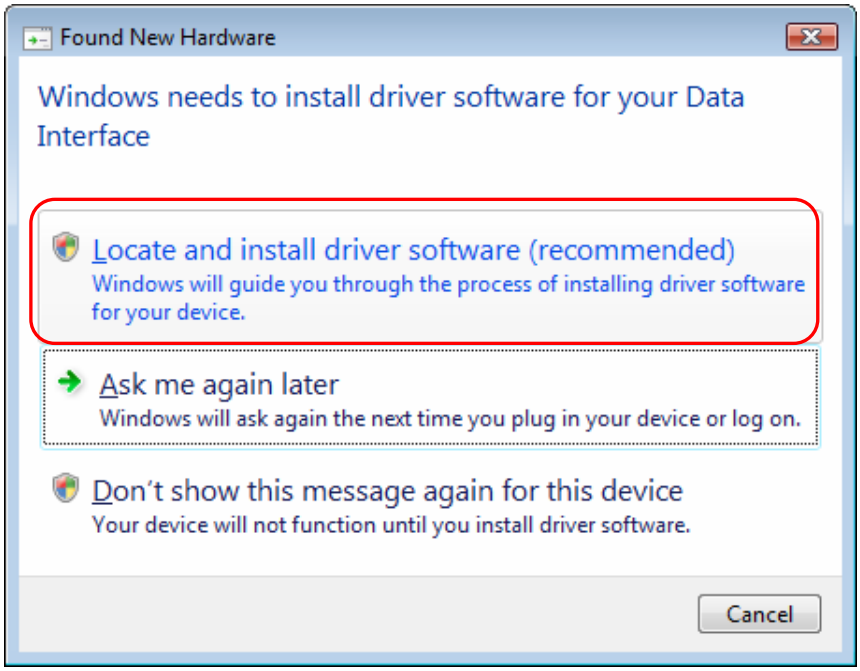


8. Click “close” if driver will be installed successfully as shown below.


Update Driver Software - AnyDATA CDMA USB Serial Device (PID 6501) (COM3)
Windows has successfully updated your driver software
Windows has finished installing the driver software for this device:
AnyDATA CDMA USB Serial Device (PID 6501)
Close

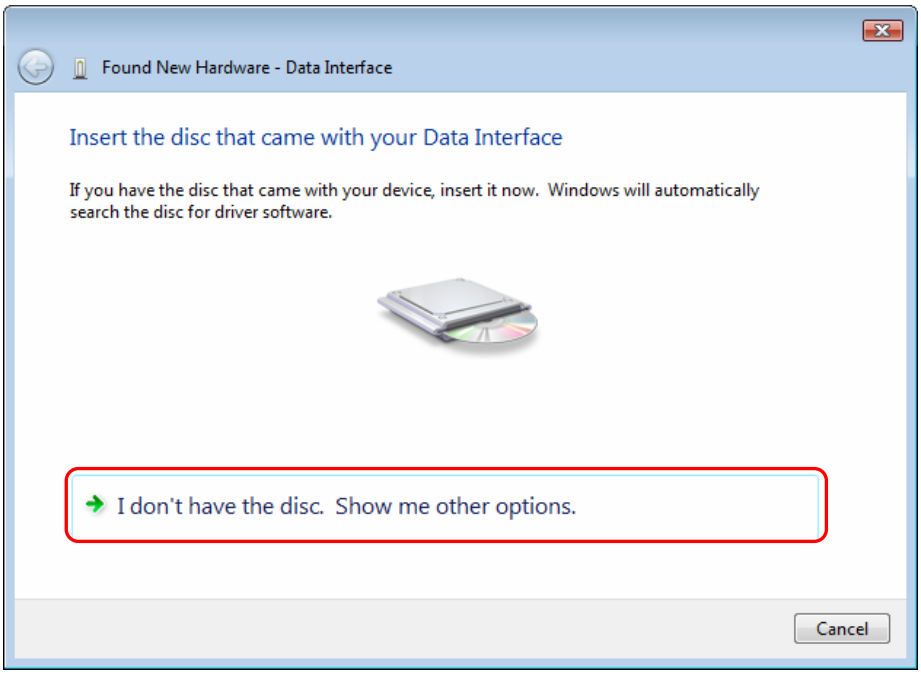
※ After the Windows shown above, the driver installation is required one more time.

9. Click “Locate and install driver software (recommended)” when shown below.

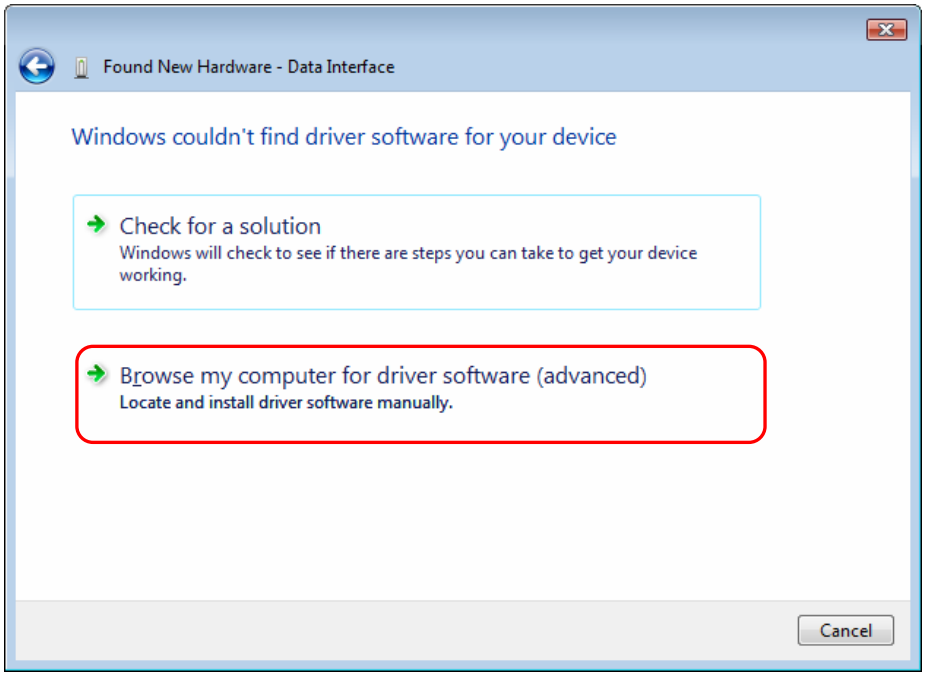

Found New Hardware
Windows needs to install driver software for your Data Interface
Locate and install driver software (recommended)
Windows will guide you through the process of installing driver software for your device.
Ask me again later
Windows will ask again the next time you plug in your device or log on.
Don't show this message again for this device
Your device will not function until you install driver software.
Cancel

10. Click “Continue” when “User Account Control” is shown.

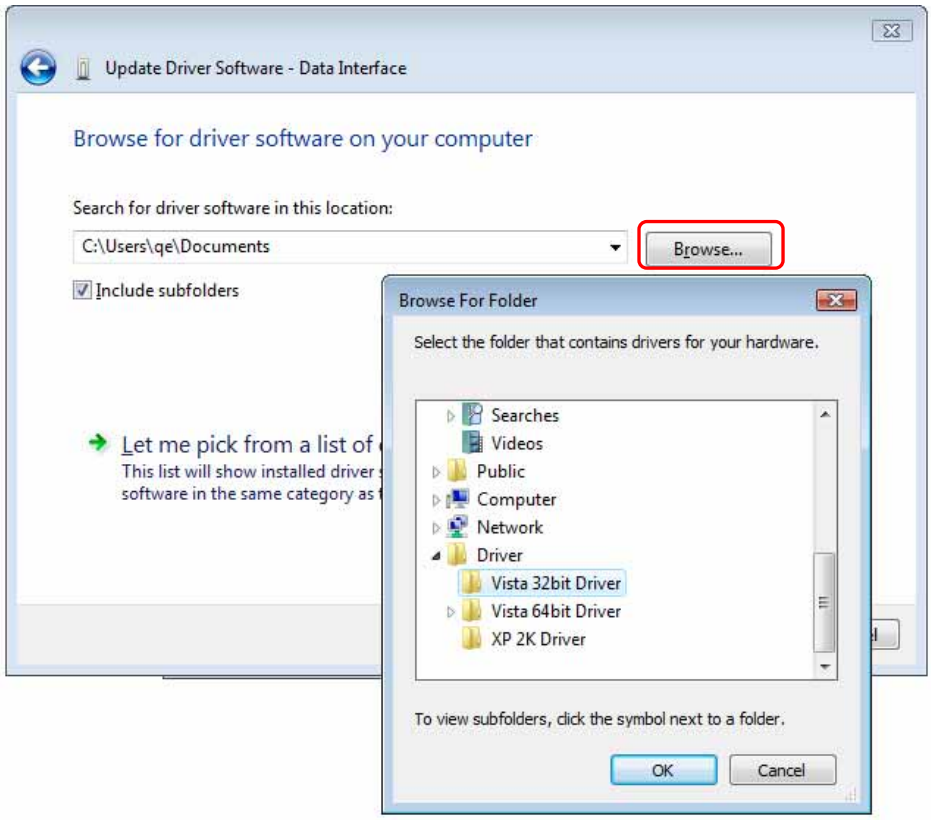
11. Click “I don’t have the disc. Show me other options.”


Found New Hardware - Data Interface
Insert the disc that came with your Data Interface
If you have the disc that came with your device, insert it now. Windows will automatically search the disc for driver software.
I don't have the disc. Show me other options.
Cancel

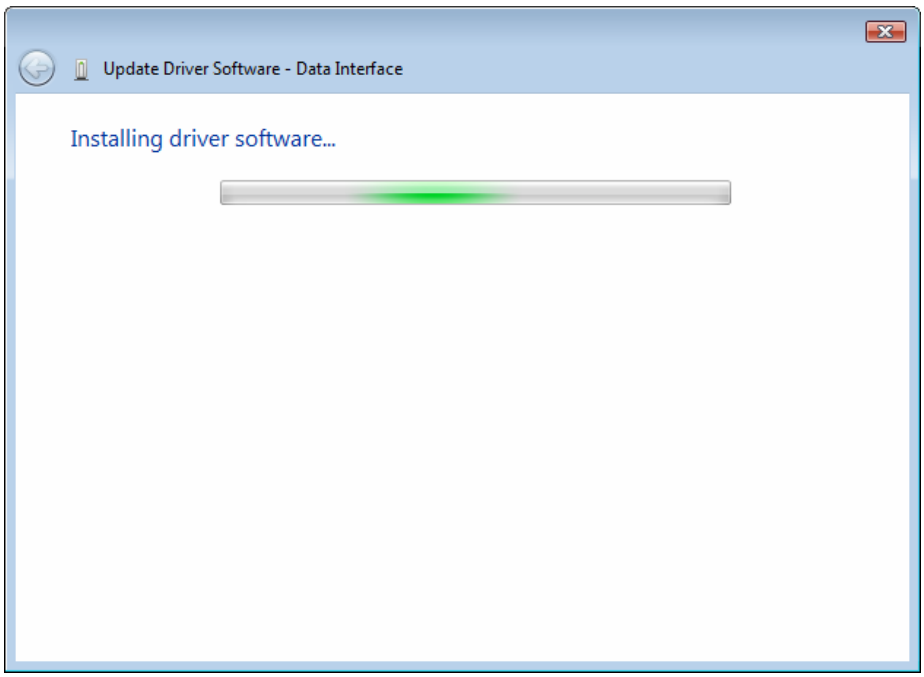
12 Click “Brower my computer for driver software (advanced)”.


Found New Hardware - Data Interface
Windows couldn't find driver software for your device
Check for a solution
Windows will check to see if there are steps you can take to get your device working.
Browse my computer for driver software (advanced)
Locate and install driver software manually.
Cancel

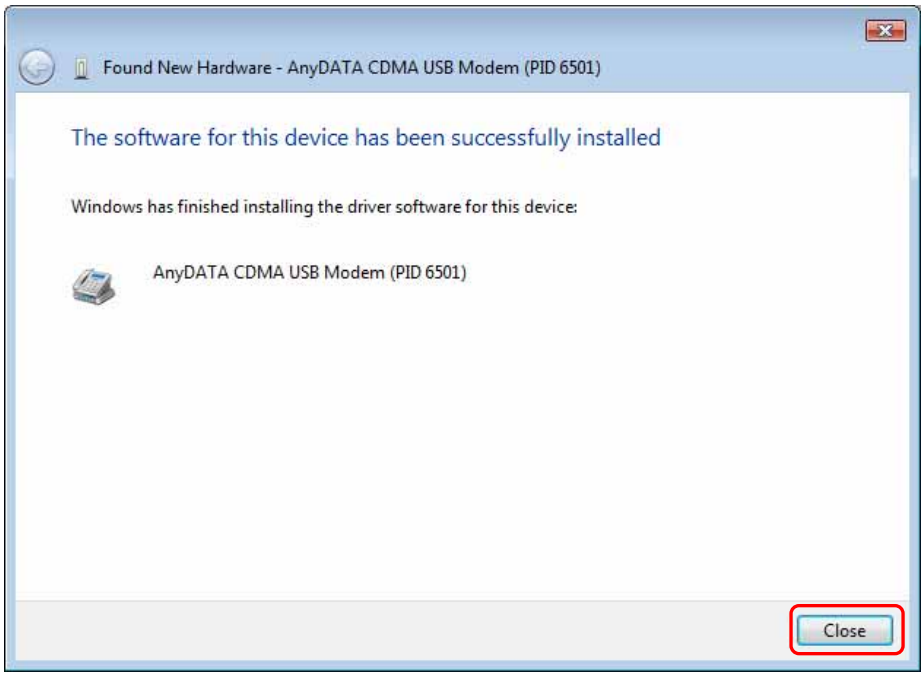
13. Click “Browse” and click “Next” as shown below.



14. “Installing driver software” will be shown as below.



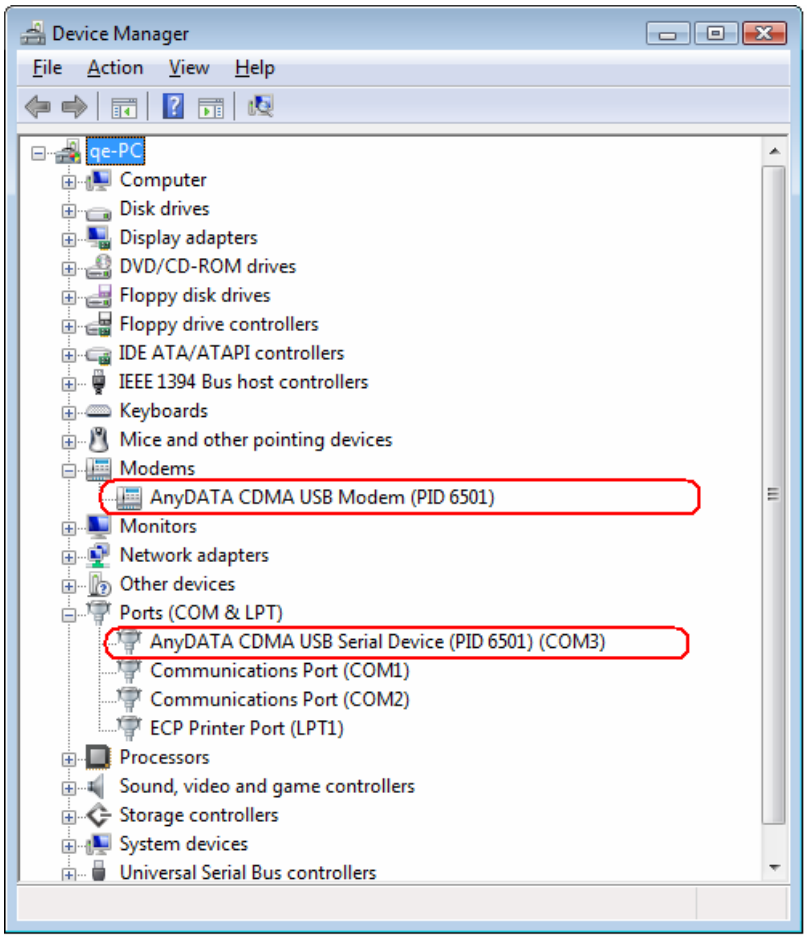
15. Click “close” when the driver will be installed successfully as shown below.


Found New Hardware - AnyDATA CDMA USB Modem (PID 6501)
The software for this device has been successfully installed
Windows has finished installing the driver software for this device:
AnyDATA CDMA USB Modem (PID 6501)
Close

16. Connect the modem and PC's USB port, and check if the driver is installed properly in "Device Manager". See the followings to the location of "Device Manager"

[Start ▶ Control Panel ▶ System and Maintenance ▶ Devise Manager]

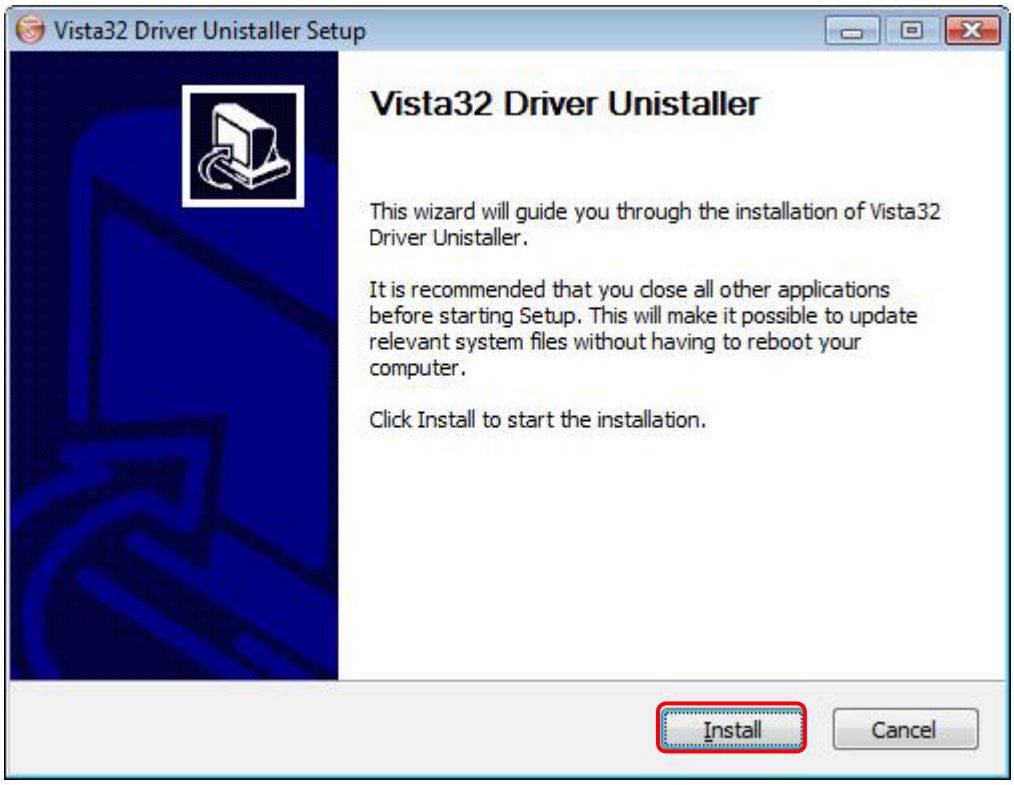
As shown in below with red boxed that shows "AnyDATA CDMA USB Modem" and "AnyDATA CDMA USB Serial Device", the driver has been successfully installed.



2.4.3 USB Driver Uninstall

1. Disconnect the modem from USB port before uninstalling the driver.

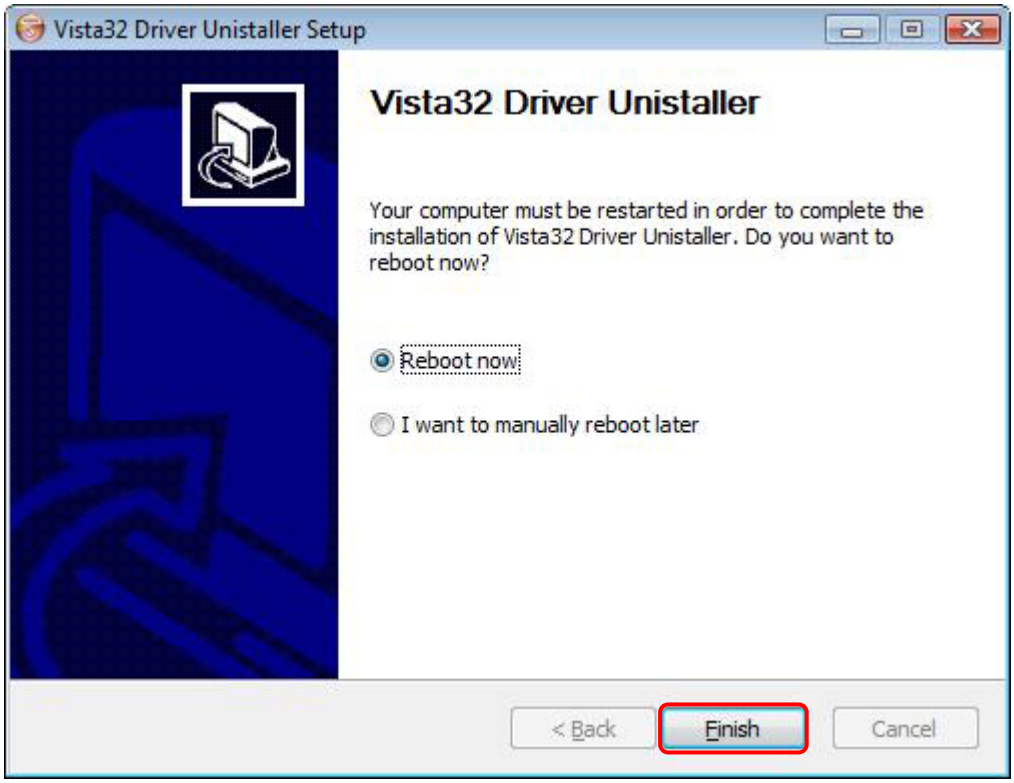
2. By clicking on Uninstall Driver under the driver folder in CD, this will start as shown below.


Vista32 Driver Unistaller Setup
Vista32 Driver Unistaller
This wizard will guide you through the installation of Vista32 Driver Unistaller.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Install to start the installation.
Install
Cancel

3. Select “Install” to uninstall the driver.

   To stop removing the driver, select “Cancel”.

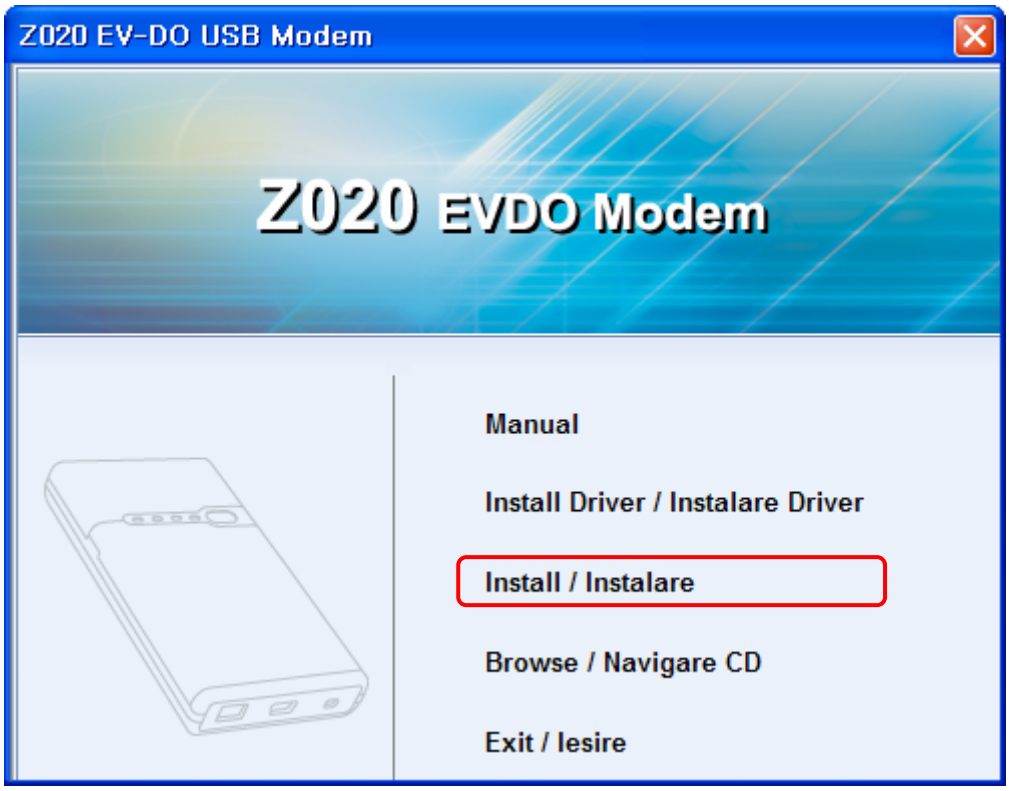
4. As shown below, click “Finish” then the driver will be uninstalled.


Vista32 Driver Unistaller Setup
Vista32 Driver Unistaller
Your computer must be restarted in order to complete the installation of Vista32 Driver Unistaller. Do you want to reboot now?
Reboot now
I want to manually reboot later
< Back
Finish
Cancel

5. The computer must restart after the driver is uninstalled.

2.5 Installing Zapp Online Express Software

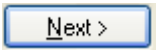
1. The installation of the USB Wireless Modem Connect should run automatically upon selecting this option on the menu of the Installation CD. Click ” Install / Instalare” on the menu.

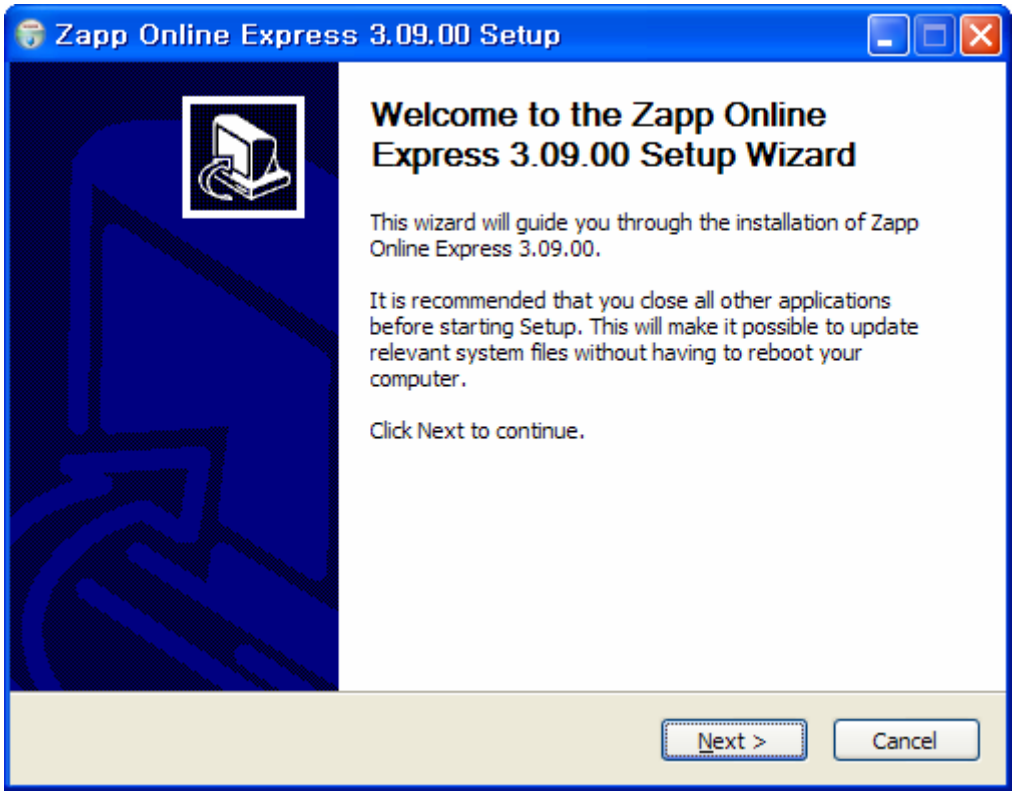


2. Select the desire language as shown below.

3. Press OK button to proceed. By pressing Cancel button, the installation of Zapp Online Express Program will stop.

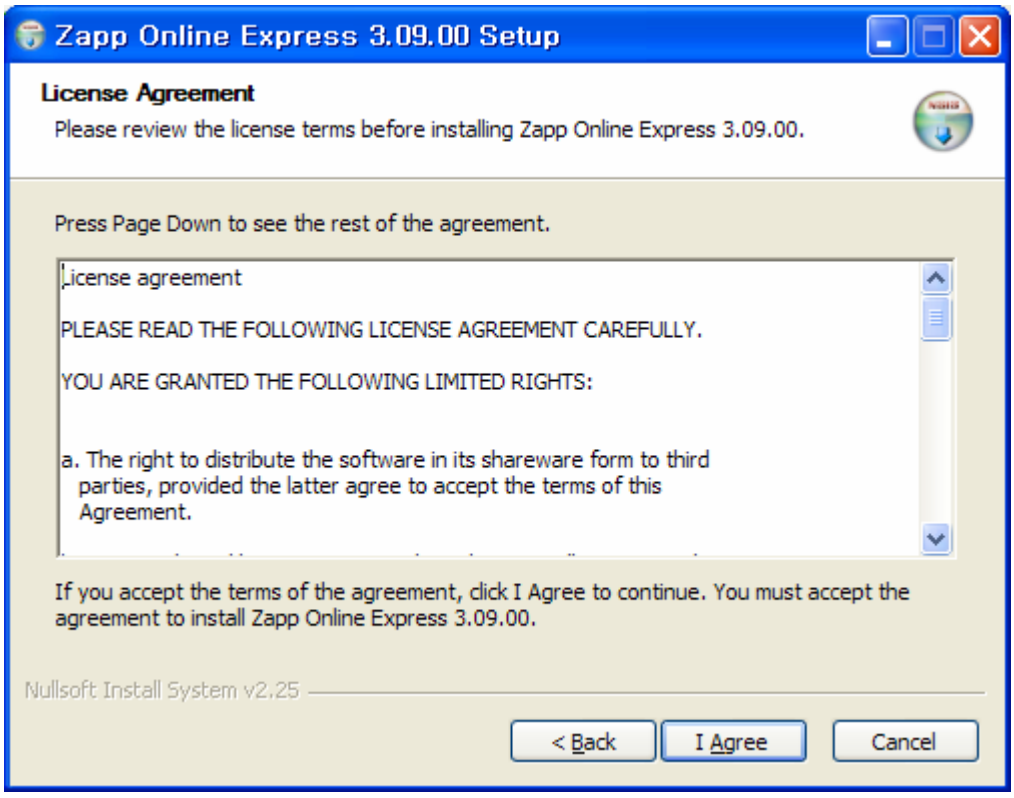
4. Welcoming message for using Zapp Online Express Program window will appear.

5. Press  button to proceed.


Zapp Online Express 3.09.00 Setup
Welcome to the Zapp Online Express 3.09.00 Setup Wizard
This wizard will guide you through the installation of Zapp Online Express 3.09.00.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel

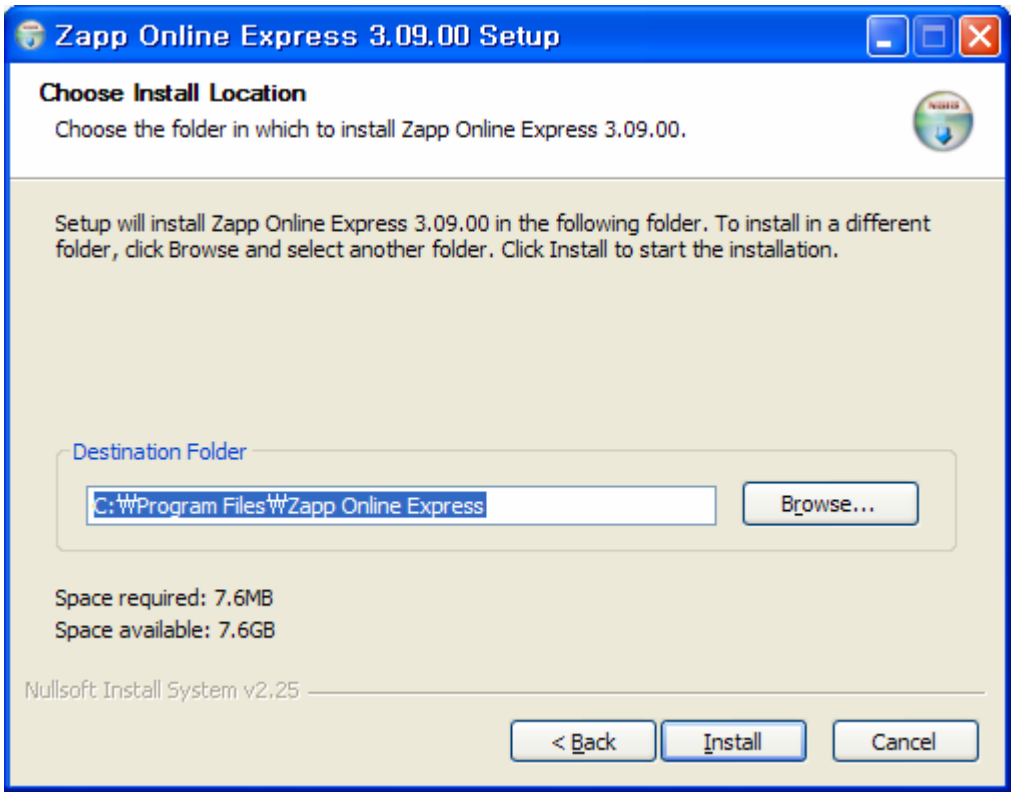
6. Next window is related to License Agreement. Please read carefully.

7. Press “I Agree” button to advance to the next step.


Zapp Online Express 3.09.00 Setup
License Agreement
Please review the license terms before installing Zapp Online Express 3.09.00.
Press Page Down to see the rest of the agreement.
License agreement
PLEASE READ THE FOLLOWING LICENSE AGREEMENT CAREFULLY.
YOU ARE GRANTED THE FOLLOWING LIMITED RIGHTS:
a. The right to distribute the software in its shareware form to third parties, provided the latter agree to accept the terms of this Agreement.
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install Zapp Online Express 3.09.00.
Nullsoft Install System v2.25
< Back
I Agree
Cancel

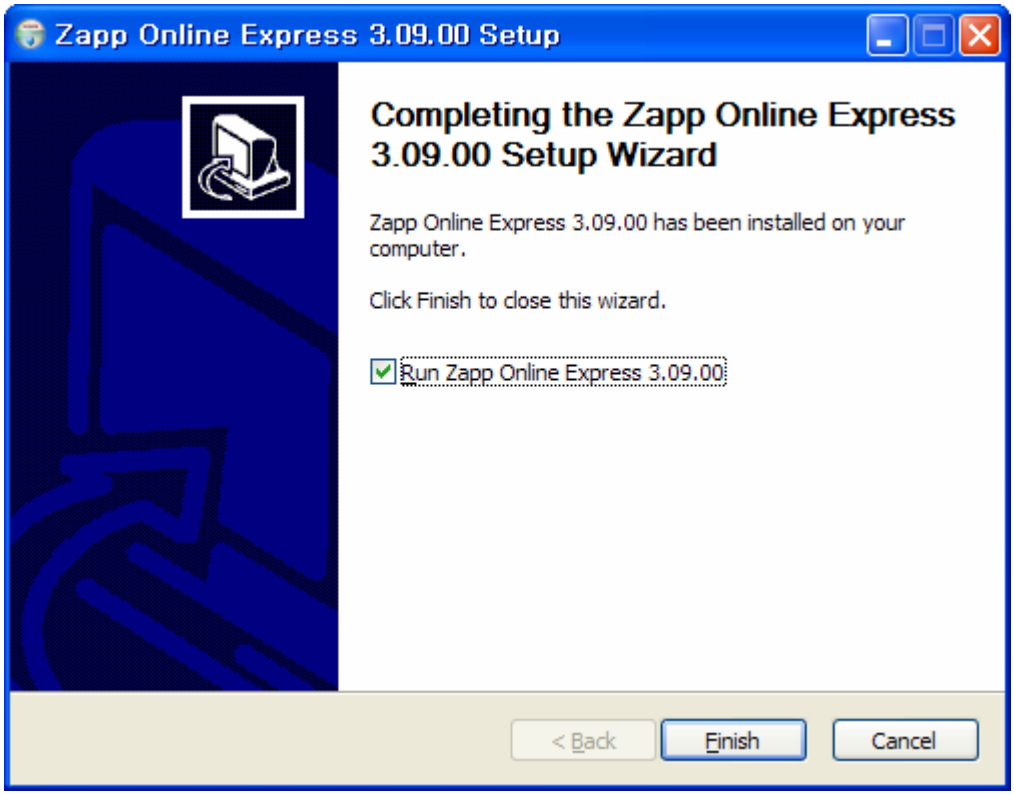
8. Next window displays asking proper path for installing the program.
   Default path is “C:\Program Files\ Zapp Online Express”.

9. Press Install button to install the program.


Zapp Online Express 3.09.00 Setup
Choose Install Location
Choose the folder in which to install Zapp Online Express 3.09.00.
Setup will install Zapp Online Express 3.09.00 in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.
Destination Folder
C:₩Program Files₩Zapp Online Express
Browse...
Space required: 7.6MB
Space available: 7.6GB
Nullsoft Install System v2.25
< Back
Install
Cancel

10. When program has been successfully installed, following window will display.

11. Press button for ending the program installation.


Zapp Online Express 3.09.00 Setup
Completing the Zapp Online Express 3.09.00 Setup Wizard
Zapp Online Express 3.09.00 has been installed on your computer.
Click Finish to close this wizard.
Run Zapp Online Express 3.09.00
< Back
Finish
Cancel

This is installed the Zapp Online Express Program.

<Remark> If modem is not connected to PC/Notebook and device driver is not installed,
then the program will not launch even after completion of installation program.

3. Using Zapp Online Express Program

3.1 Running the program

There are 2 (two) ways to run the installed Zapp Online Express program.

1) Double-click shortcut icon

on the desktop.

2) Navigate and run Zapp Online Express program by clicking, start, program and Zapp Online Express.

[Start ▶ All Program ▶ Zapp Online Express ▶

]

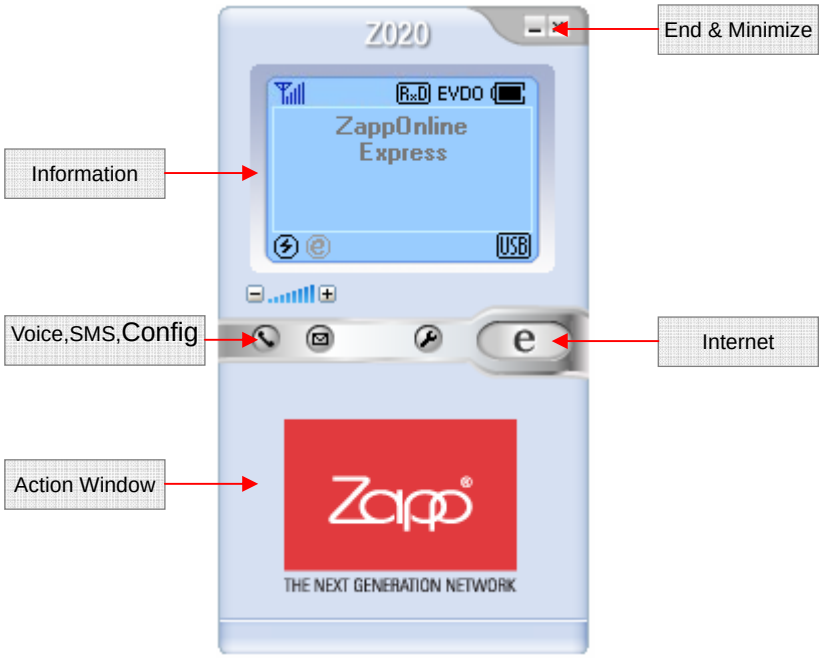
3.2 Exiting the program

From the Zapp Online Express program, by pressing button will quit the program.

<Note> If DUN is running, the program will end after the completion of these commands.

3.3 Screen Display of Zapp Online Express

3.3.1 Executed Screen

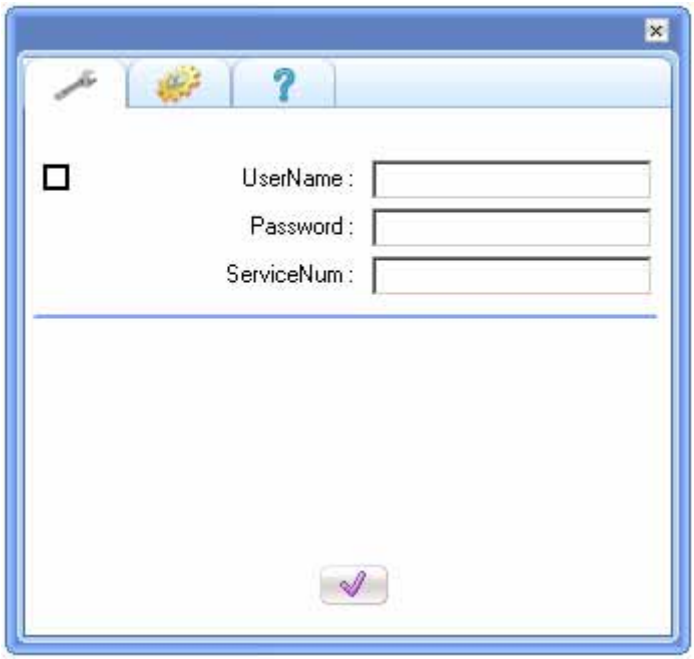


3.3.2 Description of each icon

Display	Function
	RSSI Signal Strength Indicator
	No signal
	Rx Diversity available.
	EVDO mode available
	Battery Indicator
	Battery Fully charged
	Low Battery or Battery nil
	USB connected
	Charging USB
	External Power
	Connected to the Modem
	Either the cable is disconnected to the modem or improper port connection.
	Internet connected
	Internet disconnected
	Connect to the Internet button.
	Disconnecting from the Internet
	Setup Zapp Online Express
	Voice call menu (Not available with Z020 modem)
	SMS menu (only received messages option)

[Basic] Tab

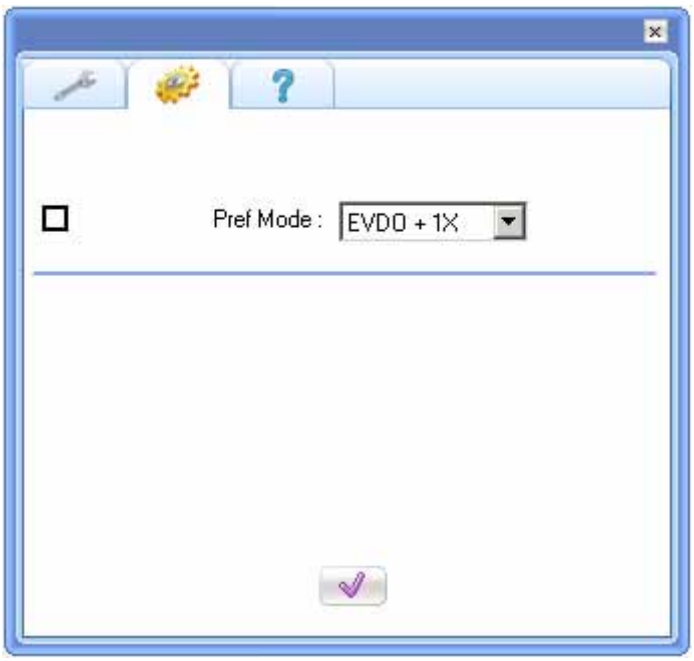
The basic configuration for connect to the network using EV-DO modem.
All values are set automatically, however if wants to change the value then check appropriate box/boxes in the left and press button to take effect.



UserName, Password, ServiceNum will be provided by the local carrier.

[Advance] Tab

This part is used to change the important parameter for EV-DO modem. If you want to change the value then check appropriate box/boxes in the left and press button to take effect.



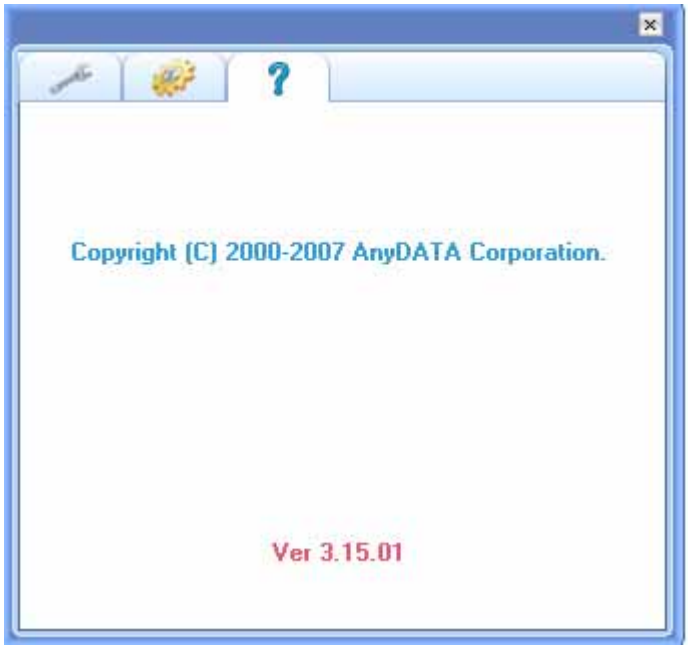
Pref Mode: Place to select a mode from 1x only, EVDO only and EVDO+1X.

<Note>

Basically the modem supports all modes if the network supports them.

[About] Tab

Displays the software version for Zapp Online Express.



3.4 Connecting to the Internet

Connection information, such as UserName, Password, and ServiceNum, are already inserted into the Zapp Online Express program. In case they are not inserted, you can manually type them: UserName and Password (not important for authentification), ServiceNum: #777.

Then press button, to connect to the internet.

If the modem is trying to connect or connected to the Internet, this icon will appear as shown above. If it cannot connect to the Internet, then icon will appear.

3.5 Disconnecting from the Internet

When user is ready to disconnect from the Internet, press button to end the connection.

Please check the following if abrupt disconnection of modem occurred:

1) Did I intentionally disconnect USB modem?
2) Are cables properly connected?
3) Did I intentionally change Port number in environment settings?
4) Did I quit/exit the program?

3.6 Sending and Receiving calls

This feature is not available with the Z020 modem in Zapp network. If you press button, the following pop-up message will appear:

3.7 Viewing received or saved message

(SMS can only be received when the modem is in 1x or Hybrid mode !)

1) By pressing “Inbox” icon, you will see a screen as below.
2) All received messages will be shown.
3) It will indicate whether the message was read or not.
4) Select the message then press button to delete this message.
5) Select the message then press button to view the whole contents in the display.

	Message read.
	Unread message.
	Sent message.

Note : Description of icons

4. Troubleshooting

Q: I cannot connect to the Internet?

A: Please check “environment setting” of program for correct ID, password and Service number. For proper ID, password and Service number, please contact service provider for more information.

Q: The Internet connection speed is too slow.

A: Please check whether the modem is set at 1X mode. If USB modem is set at 1X mode, then the Internet is not connected as EVDO mode. EVDO icon must be appeared in the display to assure that it has been connected as an EVDO mode.

Q: The Internet connection is poor and frequently it gets disconnected.

A: The CDMA frequency is at unstable state. Try to move to a different place then use it again. Also, if you touch or block the USB modem with hand/body contact, the modem connection speed degrades. Please be careful not to touch the modem with your hand or any part of the body.

Q: Can I leave the external power adopter in the electric socket even after the battery is fully charged?

A: Yes, it is safe to leave adopter in the electric socket even after the battery is fully charged if you are using genuine battery and adopter from the manufacturer.

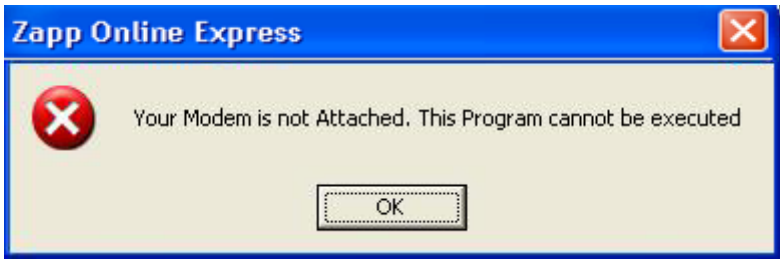
Q: No matter how long I pressed the power button, the power does not get turned off.

A: Please check whether the external power is connected or not. If external power adopter is connected then the power will not be tuned off.

Q: All of the display on the program’s screen shows as prohibited icons.

A: Please check whether the port is properly set for communicating between computer and the modem in the “environment setting” category.

Q: After the installation of the program, the program does not run and displays following message



A: This means that USB modem and the compute are not connected properly. Please double check whether USB modem is connected properly to the computer.

Q: During the running of the program, an error message appears and the program halts.

A: The actual connection of USB modem and computer has been disconnected. Please check whether the cable is dismounted, cable is disconnected or USB modem power has been turned off. Then try to reconnect the modem.

Q: Cannot make a call

A: Voice call service is not available with the Z020 modem in Zapp network

Q: The program has ended but the USB modem power is turned off.

A: The power of USB modem is not controlled by the program. The point USB modem turns on automatically is when USB cable is connected to the PC/Notebook. In order to turn off the modem, press ON/OFF button for at least 5 seconds.

Q: I tried to turn-on the modem by pressing ON/OFF button but unsuccessful.

A: Please dismount the battery and disconnect the USB cable, then remount the battery and connect the USB cable. If the power is still not on, please contact A/S center for further information.

DECLARATION OF CONFORMITY

We, SC TELEMOBIL SA, Romania, Baloteşti, j. Ilfov, Bucharest Way no 2B bis, registration number at the Registry of Commerce no: 1596697, assure, guarantee and declare at ours own risk, in conformity with the 5th article from the Government Resolution nr 1022 / 2002 regarding the guidance of products and services which could risk the life, health or the work and environment security that the following product:

Mobile Modem CMDA450, model Z020 (ADU-100A),

made in Korea by Anydata, Inc., DaeGo Bldg. 8th Fl., 1591-10, Kwanyang-dong, Dongan-gu, Anyang City Kyunggi-do, Korea, with AC/DC Adaptor, at which this Declaration is regarding to, will not put in danger the life, the health or the safety of the work, also will not have a negative impact on the environment and it is in conformity with the following:

- SR EN 60065:2001,
- SR EN 60950+A1: 1995/A2: 1996/A3: 1997,
- SR EN 60950:2001,
- Directives 99/5/EEC, 89/336/EEC, 73/23/EEC, (as in Bay Area Compliance Laboratory Corporation Report 2005, marked 1313)
- Declaration Of Conformity of the producer
- The modem is CE 1313 marked
- The adaptor is CE marked
- The Trial Report no 18265/25.01.2006, by Laborex 2000 SRL, Bucharest
- This Declaration is written down in conformity with the express stipulations of SR EN 45014:2000, HG 457/18.04.2003 and HG 1022/10.09.2002.

30.01.2006
Baloteşti, Ilfov

Victor Stan
Vicepresedinte Tehnic